

# FCC Radio Test Report

**FCC ID** : UDX-600100011  
**Equipment** : Wi-Fi 6 Outdoor Access Point  
**Brand Name** : CISCO  
**Model Name** : MR76-HW  
**Applicant** : Cisco Systems, Inc.  
170 West Tasman Drive San Jose, CA 95134 USA  
**Manufacturer** : Cisco Systems, Inc.  
170 West Tasman Drive San Jose, CA 95134 USA  
**Standard** : 47 CFR FCC Part 15.247

The product was received on Oct. 25, 2022, and testing was started from Nov. 12, 2022 and completed on Dec. 02, 2022. We, SPORTON INTERNATIONAL INC. Hsinhua Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. Hsinhua Laboratory, the test report shall not be reproduced except in full.



Approved by: Jackson Tsai

**SPORTON INTERNATIONAL INC. Hsinhua Laboratory**

No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)



# Table of Contents

**HISTORY OF THIS TEST REPORT .....3**

**SUMMARY OF TEST RESULT .....4**

**1 GENERAL DESCRIPTION .....5**

1.1 Information.....5

1.2 Testing Applied Standards .....8

1.3 Testing Location Information .....8

1.4 Measurement Uncertainty .....8

**2 TEST CONFIGURATION OF EUT.....9**

2.1 Test Channel Mode .....9

2.2 The Worst Case Measurement Configuration.....10

2.3 Accessories .....11

2.4 Support Equipment.....11

2.5 Test Setup Diagram .....12

**3 TRANSMITTER TEST RESULT .....13**

3.1 AC Power-line Conducted Emissions .....13

3.2 DTS Bandwidth.....15

3.3 Maximum Conducted Output Power .....16

3.4 Power Spectral Density .....18

3.5 Emissions in Non-restricted Frequency Bands .....19

3.6 Emissions in Restricted Frequency Bands.....20

**4 TEST EQUIPMENT AND CALIBRATION DATA.....24**

**APPENDIX A. TEST RESULTS OF AC POWER-LINE CONDUCTED EMISSIONS**

**APPENDIX B. TEST RESULTS OF DTS BANDWIDTH**

**APPENDIX C. TEST RESULTS OF MAXIMUM CONDUCTED OUTPUT POWER**

**APPENDIX D. TEST RESULTS OF POWER SPECTRAL DENSITY**

**APPENDIX E. TEST RESULTS OF EMISSIONS IN NON-RESTRICTED FREQUENCY BANDS**

**APPENDIX F. TEST RESULTS OF EMISSIONS IN RESTRICTED FREQUENCY BANDS**

**APPENDIX G. TEST RESULTS OF RADIATED EMISSION CO-LOCATION**

**APPENDIX H. TEST PHOTOS**

**PHOTOGRAPHS OF EUT V01**





### Summary of Test Result

Report Clause	Ref.Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	-
3.1	15.207	AC Power-line Conducted Emissions	PASS	-
3.2	15.247(a)	DTS Bandwidth	PASS	-
3.3	15.247(b)	Maximum Conducted Output Power	PASS	-
3.4	15.247(e)	Power Spectral Density	PASS	-
3.5	15.247(d)	Emissions in Non-restricted Frequency Bands	PASS	-
3.6	15.247(d)	Emissions in Restricted Frequency Bands	PASS	-

<b>Declaration of Conformity:</b>
The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
<b>Comments and explanations:</b>
None

Reviewed by: Barry Hsiao

Report Producer: Ann Hou

# 1 General Description

## 1.1 Information

### 1.1.1 RF General Information

Frequency Range (MHz)	Bluetooth Mode	Ch. Frequency (MHz)	Channel Number
2400-2483.5	LE	2402-2480	0-39 [40]

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	BT-LE(125kbps)	1.0	1TX
2.4-2.4835GHz	BT-LE(500kbps)	1.0	1TX
2.4-2.4835GHz	BT-LE(1Mbps)	1.0	1TX
2.4-2.4835GHz	BT-LE(2Mbps)	2.0	1TX

Note:

- ♦ Bluetooth LE uses a GFSK (125kbps/500kbps/1Mbps/2Mbps) modulation.
- ♦ BWch is the nominal channel bandwidth.

### 1.1.2 Antenna Information

Group	Ant. No.	Brand	Model Name	Antenna Type	Connector	
1	20	1	Grand-Tek	MA-ANT-20	Omni	N-Type
		2	Grand-Tek	MA-ANT-20	Omni	N-Type
		3	Grand-Tek	MA-ANT-20	Omni	N-Type
		4	Grand-Tek	MA-ANT-20	Omni	N-Type
2	21+23	1	Grand-Tek	MA-ANT-23	Sector	N-Type
		2	Grand-Tek	MA-ANT-23	Sector	N-Type
		3	Grand-Tek	MA-ANT-21	Sector	N-Type
		4	Grand-Tek	MA-ANT-21	Sector	N-Type
3	25	1	Grand-Tek	MA-ANT-25	Sector	N-Type
		2	Grand-Tek	MA-ANT-25	Sector	N-Type
		3	Grand-Tek	MA-ANT-25	Sector	N-Type
		4	Grand-Tek	MA-ANT-25	Sector	N-Type
4	27	1	Grand-Tek	MA-ANT-27	Sector	N-Type
		2	Grand-Tek	MA-ANT-27	Sector	N-Type
		3	Grand-Tek	MA-ANT-27	Sector	N-Type
		4	Grand-Tek	MA-ANT-27	Sector	N-Type
-	-	5	Senao	MR76	PIFA	I-PEX
-	-	6	Senao	MR76	PIFA	I-PEX

Group	Ant. No.		Gain (dBi)			Elevation angle above 30 degrees Gain (dBi)	Remark
			2.4G	5G	BT		
1	20	1	4	-	-	-	Radio 1
		2	4	-	-	-	Radio 1
		3	-	7	-	-1	Radio 2
		4	-	7	-	-1	Radio 2
2	21+23	1	11	-	-	-	Radio 1
		2	11	-	-	-	Radio 1
		3	-	13	-	11.2	Radio 2
		4	-	13	-	11.2	Radio 2
3	25	1	8.1	-	-	-	Radio 1
		2	8.1	-	-	-	Radio 1
		3	-	7.1	-	1.8	Radio 2
		4	-	7.1	-	1.8	Radio 2
4	27	1	9.8	-	-	-	Radio 1
		2	9.8	-	-	-	Radio 1
		3	-	11.3	-	9.7	Radio 2
		4	-	11.3	-	9.7	Radio 2
-	-	5	4.6	5.9	-	5.2	Radio 3 (Scanning Radio)
-	-	6	-	-	4.7	-	Radio 4 (BT LE)

Note 1: The EUT has six antennas.

Note 2: The antenna mentioned above group 1~4 will not be sold with the EUT in the market.

**For 2.4GHz function:**

**<Radio 1>**

For IEEE 802.11 b/g/n/ac/ax mode (1TX/1RX)

Support diversity function and pre-tested on each single chain, the worst case was recorded in this test report.

For IEEE 802.11 b/g/n/ac/ax mode (2TX/2RX)

Ant. 1 and Ant. 2 could transmit/receive simultaneously.

**<Radio 3>**

For IEEE 802.11 b/g/n/ac mode (1TX/1RX)

Ant. 5 could transmit/receive simultaneously.

**For 5GHz function:**

**<Radio 2>**

For IEEE 802.11 a/an/ac/ax mode (1TX/1RX)

Support diversity function and pre-tested on each single chain, the worst case was recorded in this test report.

For IEEE 802.11 a/an/ac/ax mode (2TX/2RX)

Ant. 3 and Ant. 4 could transmit/receive simultaneously.

**<Radio 3>**

For IEEE 802.11 a/an/ac mode (1TX/1RX)



Ant. 5 could transmit/receive simultaneously.

For BT function:

<Radio 4>

For IEEE 802.15.1 Bluetooth mode (1TX/1RX)

Ant. 6 could transmit/receive simultaneously.

1.1.3 EUT Information

Operational Condition	
EUT Power Type	From PoE
EUT Function	<input checked="" type="checkbox"/> Point-to-multipoint <input type="checkbox"/> Point-to-point
Type of EUT	
<input checked="" type="checkbox"/>	Stand-alone
<input type="checkbox"/>	Combined (EUT where the radio part is fully integrated within another device)
	Combined Equipment - Brand Name / Model No.: ...
<input type="checkbox"/>	Plug-in radio (EUT intended for a variety of host systems)
	Host System - Brand Name / Model No.: ...
<input type="checkbox"/>	Other:

1.1.4 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
BT-LE(1Mbps)	0.867	0.62	2.169m	1k
BT-LE(125kbps)	0.975	0.11	17.089m	100
BT-LE(500kbps)	0.918	0.37	4.591m	300
BT-LE(2Mbps)	0.589	2.3	1.112m	1k

Note. If DC < 0.98, the DCF was added while measuring Output power and PSD.

1.1.5 Table for Multiple Listing

The brand/model names in the following table are all refer to the identical product.

Sample	Description
SKU1: Screened C-temp	All the Samples are identical, the difference samples for difference NAND, DDR, Security chip.
SKU2: unscreened C-temp	

## 1.2 Testing Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR FCC Part 15
- ♦ ANSI C63.10-2013

The following reference test guidance is not within the scope of accreditation of TAF:

- ♦ KDB 558074 D01 v05r02
- ♦ KDB 414788 D01 v01r01

## 1.3 Testing Location Information

Test Lab. : Sporton International Inc. Hsinhua Laboratory				
<input checked="" type="checkbox"/>	Hsinhua (TAF: 3785)	ADD: No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)		
		TEL: 886-3-327-3456	FAX: 886-3-327-0973	
Test site Designation No. TW3785 with FCC.				
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
AC Conduction	CO04-HY	Wayne	21.5~22.3°C / 55~58%	02/Dec/2022
RF Conducted	TH07-HY	Xie	23.1~25.6°C / 55~59%	15/Nov/2022~23/Nov/2022
Radiated	03CH02-HY	Jack	22.2~23.0°C / 56~60%	12/Nov/2022~22/Nov/2022
Radiated (Co-location)	03CH02-HY	Jack	21.5~22.3°C / 57~61%	30/Nov/2022
<input type="checkbox"/>	Wen 33rd.St. (TAF: 3785)	ADD: No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)		
		TEL: 886-3-318-0787	FAX: 886-3-318-0287	
Test site Designation No. TW0008 with FCC.				

## 1.4 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

Test Items	Uncertainty	Remark
AC Power-line Conducted Emissions	4.53 dB	Confidence levels of 95%
Bandwidth	3 MHz	Confidence levels of 95%
Maximum Conducted Output Power	2 dB	Confidence levels of 95%
Power Spectral Density	2 dB	Confidence levels of 95%
Emissions in Non-restricted Frequency Bands	0.14 dB	Confidence levels of 95%
Emissions in Restricted Frequency Bands	4.8 dB	Confidence levels of 95%
Temperature	0.41 °C	Confidence levels of 95%
Humidity	3.4 %	Confidence levels of 95%





## 2 Test Configuration of EUT




### 2.1 Test Channel Mode

Test Software Version	DOS 6.1
Mode	Power Setting
BT-LE(1Mbps)	-
2402MHz	200
2440MHz	200
2480MHz	109
BT-LE(2Mbps)	-
2402MHz	200
2440MHz	200
2480MHz	86
BT-LE(125kbps)	-
2402MHz	151
2440MHz	151
2480MHz	128
BT-LE(500kbps)	-
2402MHz	200
2440MHz	200
2480MHz	99

## 2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
<b>Tests Item</b>	AC power-line conducted emissions
<b>Condition</b>	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz
<b>Operating Mode</b>	CTX
1	PoE mode

The Worst Case Mode for Following Conformance Tests	
<b>Tests Item</b>	DTS Bandwidth Maximum Conducted Output Power Power Spectral Density Emissions in Non-restricted Frequency Bands
<b>Test Condition</b>	Conducted measurement at transmit chains

The Worst Case Mode for Following Conformance Tests			
<b>Tests Item</b>	Emissions in Restricted Frequency Bands		
<b>Test Condition</b>	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.		
<b>Operating Mode &lt; 1GHz</b>	CTX		
1	PoE mode		
<b>Operating Mode &gt; 1GHz</b>	CTX		
<b>Orthogonal Planes of EUT</b>	<b>X Plane</b>	<b>Y Plane</b>	<b>Z Plane</b>
			
<b>Worst Planes of EUT</b>	V		V (Co-location)

The Worst Case Mode for Following Conformance Tests	
<b>Tests Item</b>	Simultaneous Transmission Analysis
<b>Test Condition</b>	Radiated measurement
<b>Operating Mode</b>	CTX
1	WLAN 2.4GHz+ WLAN 5GHz+ Scanning Radio WLAN 2.4GHz+Bluetooth
2	WLAN 2.4GHz+ WLAN 5GHz+ Scanning Radio WLAN 5GHz+Bluetooth
Refer to Sporton Test Report No.: FA972312-12 for Co-location RF Exposure Evaluation and Appendix G for Radiated Emission Co-location.	

### 2.3 Accessories

Accessories				
Mounting bracket	Brand Name	CISCO	Model Name	MR76-HW

Reminder: Regarding to more detail and other information, please refer to user manual.

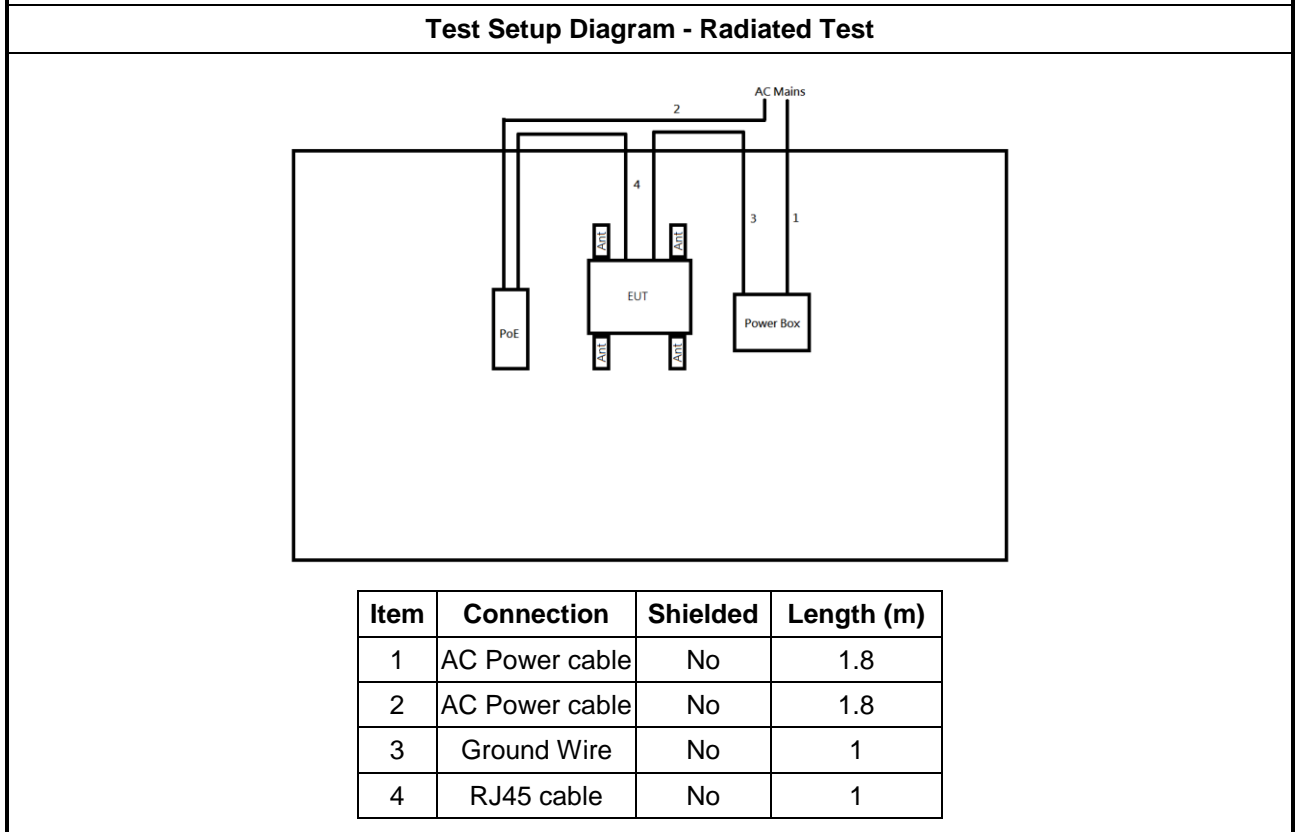
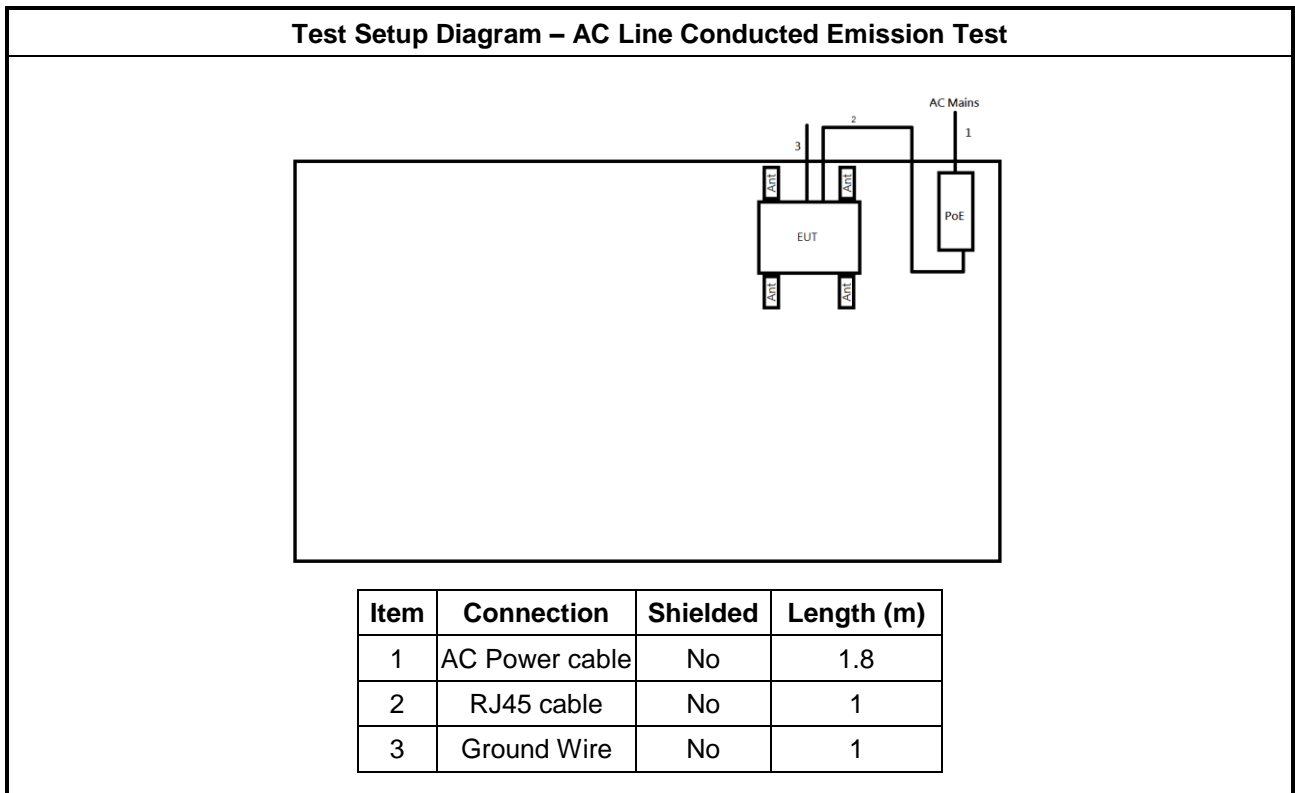
### 2.4 Support Equipment

Support Equipment – AC Conduction					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	LAN Cable	Power sync	CAT-6E-01	-	-
2	PoE	PHIHONG	POEA30U-1ATE	-	-
3	AC Power Cable*2	Power sync	PW-GPC180-3	-	-

Support Equipment – Conducted					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	DELL	E5410	-	-
2	Adapter for NB	DELL	HA65NM130	-	-

Support Equipment – Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	LAN Cable	Power sync	CAT-6E-01	-	-
2	PoE	PHIHONG	POEA30U-1ATE	-	-
3	AC Power Cable*2	Power sync	PW-GPC180-3	-	-

## 2.5 Test Setup Diagram



### 3 Transmitter Test Result

#### 3.1 AC Power-line Conducted Emissions

##### 3.1.1 AC Power-line Conducted Emissions Limit

AC Power-line Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

Note 1: \* Decreases with the logarithm of the frequency.

##### 3.1.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

##### 3.1.3 Test Procedures

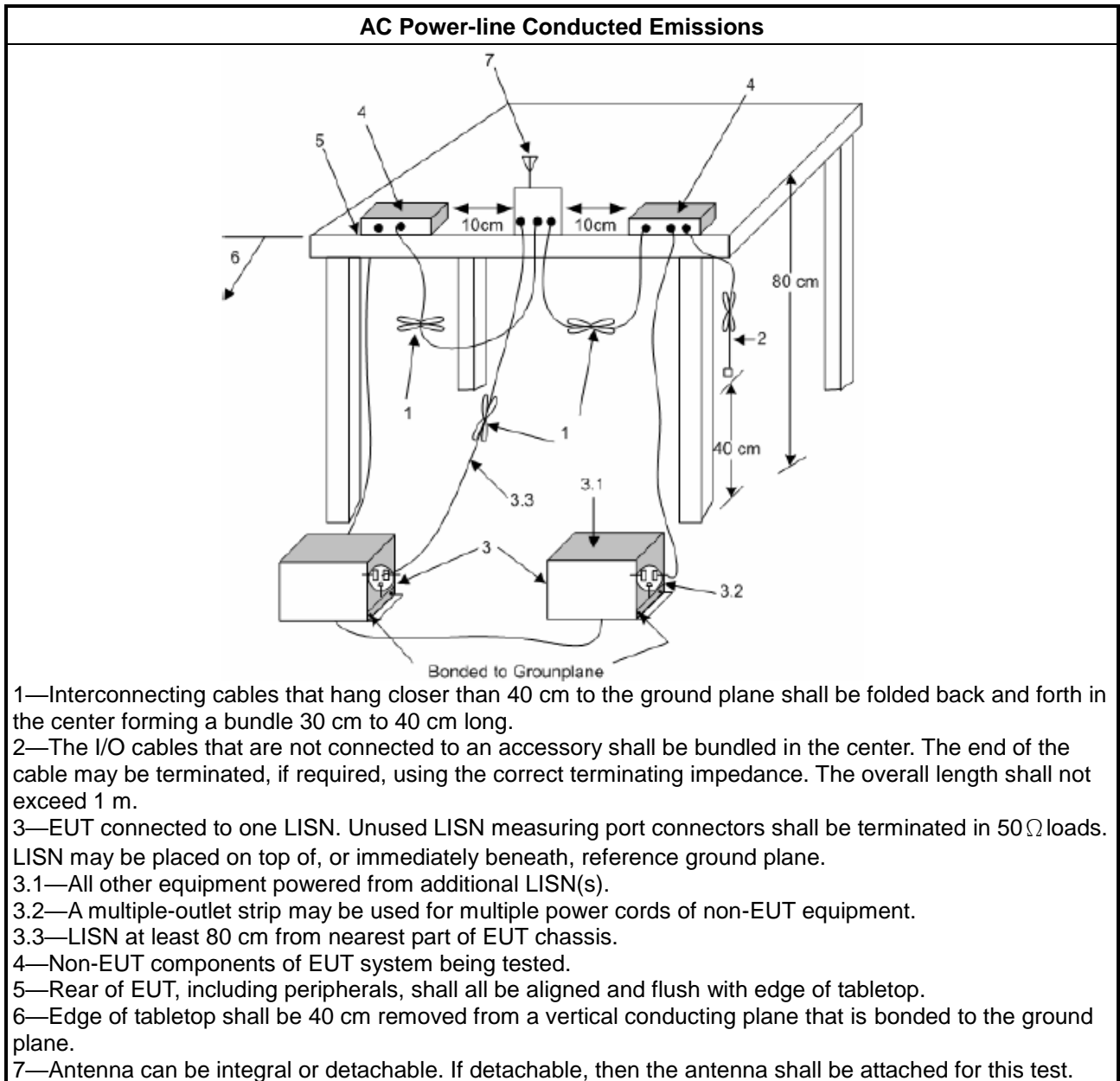
Test Method
<ul style="list-style-type: none"> <li>Refer as ANSI C63.10-2013, clause 6.2 foray power-line conducted emissions.</li> </ul>

##### 3.1.4 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Raw(Read Level) + LISN(LISN Factor) + CL(Cable Loss) + AT(Attenuator).

### 3.1.5 Test Setup



### 3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

### 3.2 DTS Bandwidth

#### 3.2.1 6dB Bandwidth Limit

6dB Bandwidth Limit	
Systems using digital modulation techniques:	
▪	6 dB bandwidth $\geq$ 500 kHz.

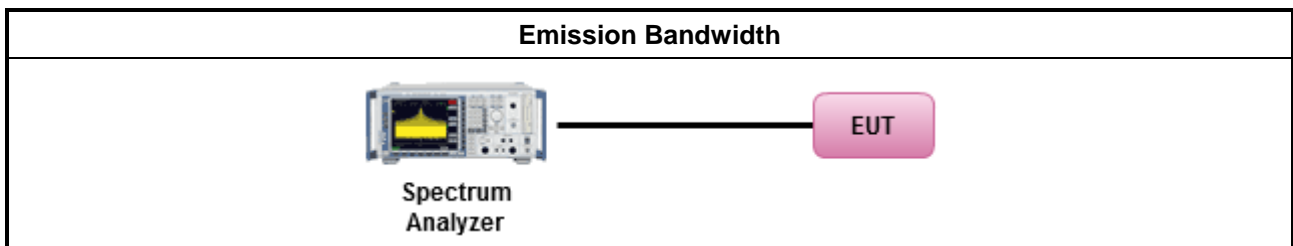
#### 3.2.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

#### 3.2.3 Test Procedures

Test Method	
▪	For the emission bandwidth shall be measured using one of the options below:
<input checked="" type="checkbox"/>	Refer as KDB 558074, clause 8.2 (11.8 of ANSI C63.10) DTS bandwidth measurement.
<input type="checkbox"/>	Refer as RSS-Gen, clause 6.7 for occupied bandwidth testing.
<input type="checkbox"/>	Refer as ANSI C63.10, clause 6.9.3 for occupied bandwidth testing.

#### 3.2.4 Test Setup



#### 3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

### 3.3 Maximum Conducted Output Power

#### 3.3.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit	
	<ul style="list-style-type: none"> <li>▪ If <math>G_{TX} \leq 6</math> dBi, then <math>P_{Out} \leq 30</math> dBm (1 W)</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Point-to-multipoint systems (P2M): If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)</math> dBm</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Point-to-point systems (P2P): If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)/3</math> dBm</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Smart antenna system (SAS):</li> </ul>
	<ul style="list-style-type: none"> <li>- Single beam: If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)/3</math> dBm</li> </ul>
	<ul style="list-style-type: none"> <li>- Overlap beam: If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)/3</math> dBm</li> </ul>
	<ul style="list-style-type: none"> <li>- Aggregate power on all beams: If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)/3 + 8</math> dB dBm</li> </ul>
e.i.r.p. Power Limit:	
	<ul style="list-style-type: none"> <li>▪ 2400-2483.5 MHz Band</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Point-to-multipoint systems (P2M): <math>P_{eirp} \leq 36</math> dBm (4 W)</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Point-to-point systems (P2P): <math>P_{eirp} \leq \text{MAX}(36, [P_{Out} + G_{TX}])</math> dBm</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Smart antenna system (SAS)</li> </ul>
	<ul style="list-style-type: none"> <li>- Single beam: <math>P_{eirp} \leq \text{MAX}(36, P_{Out} + G_{TX})</math> dBm</li> </ul>
	<ul style="list-style-type: none"> <li>- Overlap beam: <math>P_{eirp} \leq \text{MAX}(36, P_{Out} + G_{TX})</math> dBm</li> </ul>
	<ul style="list-style-type: none"> <li>- Aggregate power on all beams: <math>P_{eirp} \leq \text{MAX}(36, [P_{Out} + G_{TX} + 8])</math> dBm</li> </ul>
<p><math>P_{Out}</math> = maximum peak conducted output power or maximum conducted output power in dBm,  <math>G_{TX}</math> = the maximum transmitting antenna directional gain in dBi.</p>	

#### 3.3.2 Measuring Instruments

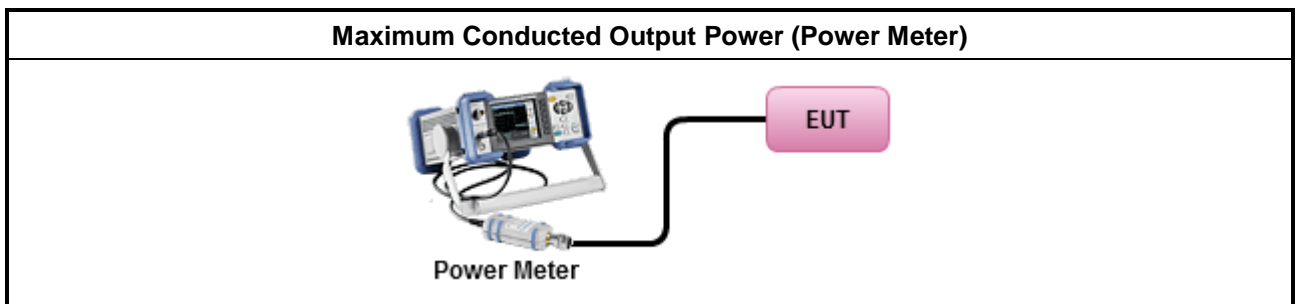
Refer a test equipment and calibration data table in this test report.



### 3.3.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> <li>▪ Maximum Peak Conducted Output Power</li> </ul>	
<input type="checkbox"/>	Refer as KDB 558074, clause 8.3.1.1 (11.9.1.1 of ANSI C63.10) RBW ≥ EBW method.
<input type="checkbox"/>	Refer as KDB 558074, clause 8.3.1.2 (11.9.1.2 of ANSI C63.10) integrated band power method.
<input type="checkbox"/>	Refer as KDB 558074, clause 8.3.1.3 (11.9.1.3 of ANSI C63.10) peak power meter.
<ul style="list-style-type: none"> <li>▪ Maximum Average Conducted Output Power</li> </ul>	
<input type="checkbox"/>	Refer as KDB 558074, clause 8.3.2.2 (11.9.2.2 of ANSI C63.10) using a spectrum analyzer.
<input checked="" type="checkbox"/>	Refer as KDB 558074, clause 8.3.2.3 (11.9.2.3 of ANSI C63.10) using a power meter.
<ul style="list-style-type: none"> <li>▪ For conducted measurement.</li> </ul>	
<ul style="list-style-type: none"> <li>▪ If the EUT supports multiple transmit chains using options given below: Refer as KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.</li> </ul>	
<ul style="list-style-type: none"> <li>▪ If multiple transmit chains, EIRP calculation could be following as methods:  <math>P_{total} = P_1 + P_2 + \dots + P_n</math>                      (calculated in linear unit [mW] and transfer to log unit [dBm])  <math>EIRP_{total} = P_{total} + DG</math> </li> </ul>	

### 3.3.4 Test Setup



### 3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

### 3.4 Power Spectral Density

#### 3.4.1 Power Spectral Density Limit

Power Spectral Density Limit
<ul style="list-style-type: none"> <li>Power Spectral Density (PSD) ≤ 8 dBm/3kHz</li> </ul>

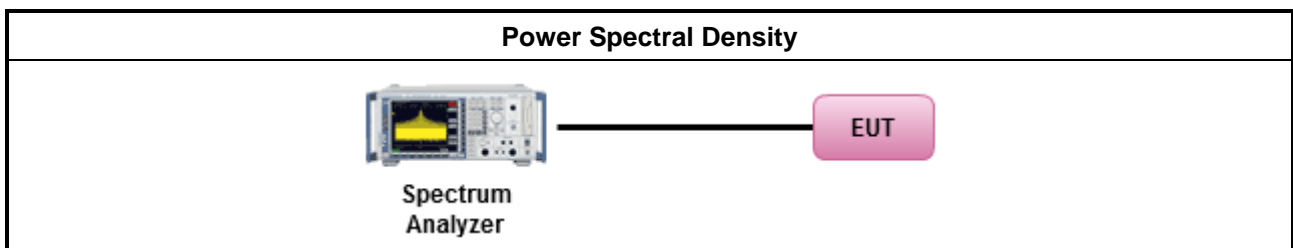
#### 3.4.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

#### 3.4.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> <li>Peak power spectral density procedures that the same method as used to determine the conducted output power. If maximum peak conducted output power was measured to demonstrate compliance to the output power limit, then the peak PSD procedure below (Method PKPSD) shall be used. If maximum conducted output power was measured to demonstrate compliance to the output power limit, then one of the average PSD procedures shall be used, as applicable based on the following criteria (the peak PSD procedure is also an acceptable option).</li> </ul>	
<input checked="" type="checkbox"/> Refer as KDB 558074, clause 8.4 (11.10 of ANSI C63.10) Max. PSD.	
<ul style="list-style-type: none"> <li>For conducted measurement.             <ul style="list-style-type: none"> <li>If The EUT supports multiple transmit chains using options given below:                 <ul style="list-style-type: none"> <li>Measure and sum the spectra across the outputs. Refer as KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.</li> </ul> </li> </ul> </li> </ul>	

#### 3.4.4 Test Setup



#### 3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

### 3.5 Emissions in Non-restricted Frequency Bands

#### 3.5.1 Emissions in Non-restricted Frequency Bands Limit

Un-restricted Band Emissions Limit	
RF output power procedure	Limit (dB)
Peak output power procedure	20
Average output power procedure	30

Note 1: If the peak output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum measured in-band peak level.

Note 2: If the average output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the power in any 100 kHz outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum measured in-band average level.

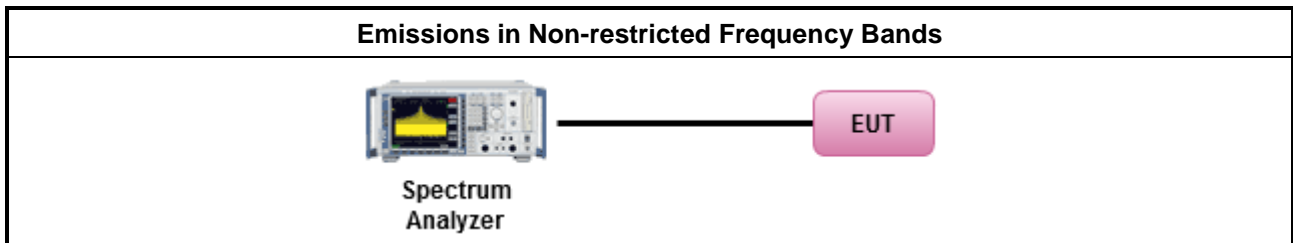
#### 3.5.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

#### 3.5.3 Test Procedures

Test Method
<ul style="list-style-type: none"> <li>Refer as KDB 558074, clause 8.5 (11.11 of ANSI C63.10) for non-restricted frequency bands.</li> </ul>

#### 3.5.4 Test Setup



#### 3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E

### 3.6 Emissions in Restricted Frequency Bands

#### 3.6.1 Emissions in Restricted Frequency Bands Limit

Restricted Band Emissions Limit			
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

Note 1: Test distance for frequencies at or above 30 MHz, measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

Note 2: Test distance for frequencies at below 30 MHz, measurements may be performed at a distance closer than the EUT limit distance; however, an attempt should be made to avoid making measurements in the near field. When performing measurements below 30 MHz at a closer distance than the limit distance, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two or more distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB / decade). The test report shall specify the extrapolation method used to determine compliance of the EUT.

Note 3: Using the distance of 1m during the test for above 18 GHz, and the test value to correct for the distance factor at 3m.

#### 3.6.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

### 3.6.3 Test Procedures

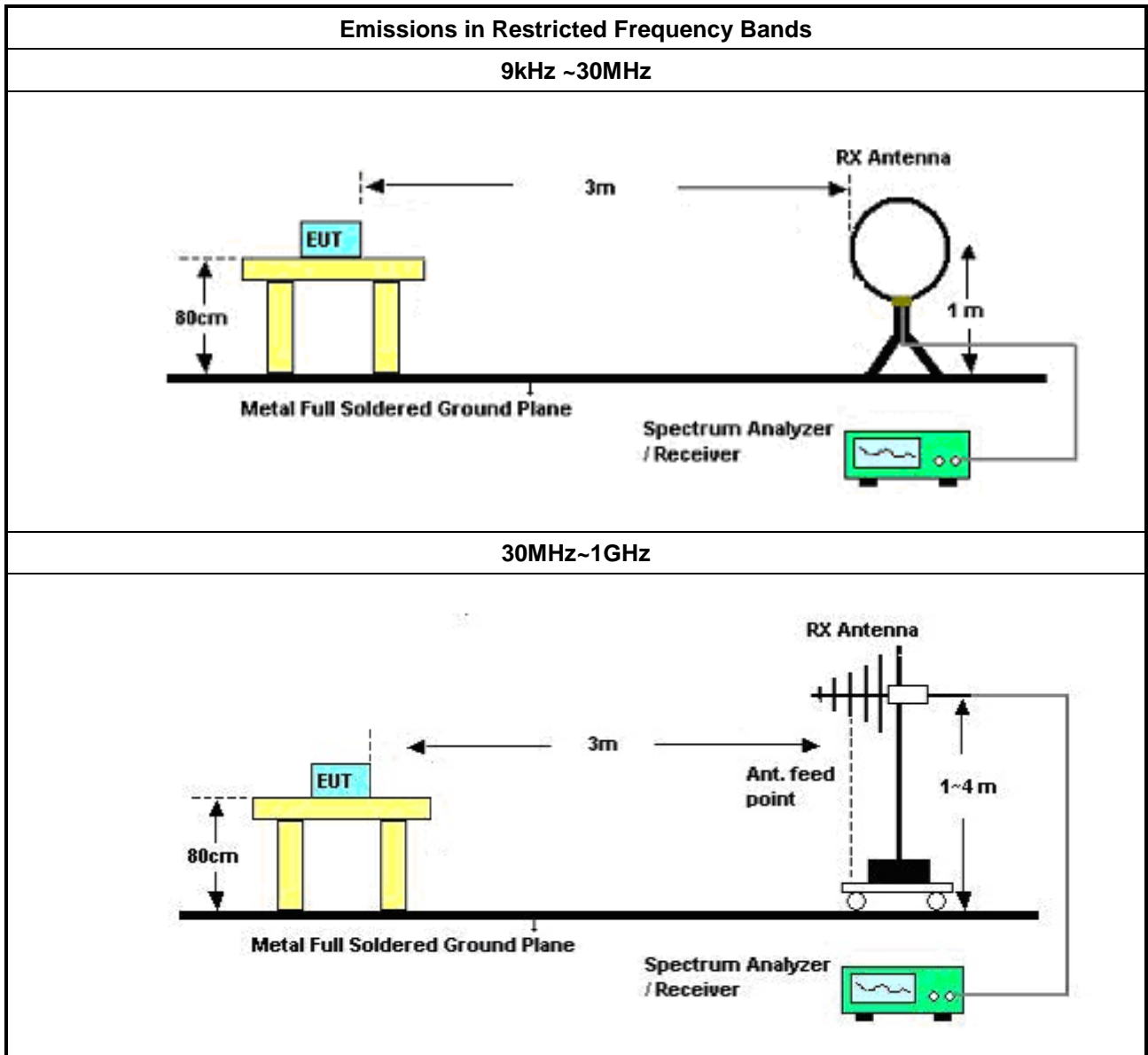
<b>Test Method</b>	
	<ul style="list-style-type: none"> <li>▪ The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.</li> </ul>
	<ul style="list-style-type: none"> <li>▪ For the transmitter unwanted emissions shall be measured using following options below:</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Refer as KDB 558074, clause 8.6 (11.12 of ANSI C63.10) for restricted frequency bands.</li> </ul>
	<ul style="list-style-type: none"> <li>▪ For the transmitter band-edge emissions shall be measured using following options below:</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Refer as KDB 558074 clause 8.7.1, When the performing peak or average radiated measurements, emissions within 2 MHz of the authorized band edge may be measured using the marker-delta method described below.</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Refer as KDB 558074, clause 8.7.2 (6.10.6 of ANSI C63.10) for marker-delta method for band-edge measurements.</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Refer as KDB 558074, clause 8.7.3 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels.</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Use the following spectrum analyzer settings:</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Set RBW=100 kHz for f &lt; 1 GHz; VBW=3 * RBW; Sweep = auto; Detector function = peak; Trace = max hold.</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Set RBW = 1 MHz, VBW= 3MHz for f ≥ 1 GHz for peak measurement. For average measurement, refer as 1.1.4.</li> </ul>
	<ul style="list-style-type: none"> <li>▪ KDB 414788 Open-Field Test Sites and Chamber Correlation Justification.</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Based on FCC 15.31(f)(2): measurements may be performed at a distance closer than that specified in regulations; however, an attempt should be made to avoid making measurements in the near field.</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.</li> </ul>

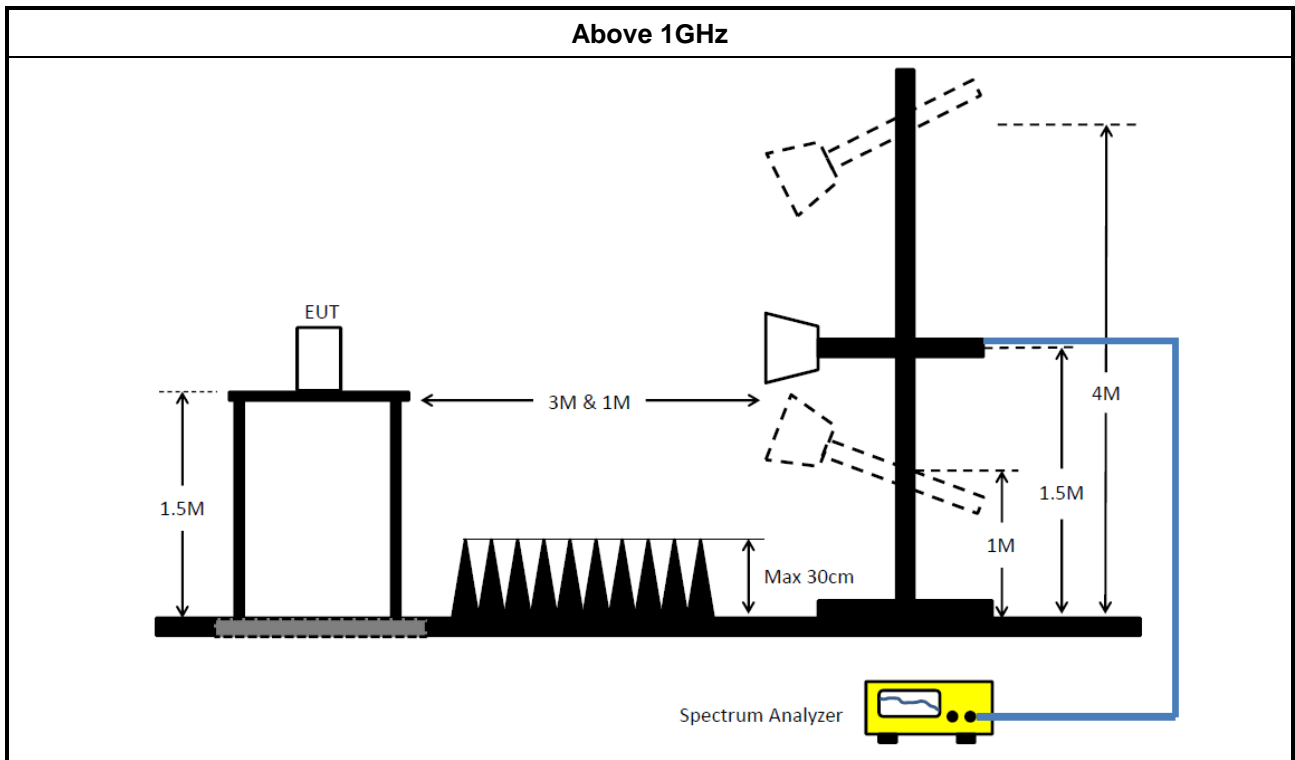
### 3.6.4 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

### 3.6.5 Test Setup





### 3.6.6 Test Result of Emissions in Restricted Frequency Bands (Below 30MHz)

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

### 3.6.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F

## 4 Test Equipment and Calibration Data

### Instrument for AC Conduction

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
EMI Test Receiver	R&S	ESR	102051	9kHz ~ 3.6GHz	13/May/2022	12/May/2023
Two-Line V-Network	R&S	ENV 216	100003	9kHz ~ 30MHz	18/Feb/2022	17/Feb/2023
RF Cable 5m	TITAN	TITAN	CO04-cable-01	9 kHz~200MHz	01/Mar/2022	28/Feb/2023
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9kHz ~ 30MHz	25/Oct/2022	24/Oct/2023
Software	Sporton	SENSE-EMI	V5.10.8.7	-	NCR	NCR

NCR: No Calibration Required

### Instrument for Conducted Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV 40	101515	10Hz~40GHz	14/Feb/2022	13/Feb/2023
SMB100A Signal Generator	R&S	SMB100A	181147	100kHz~40GHz	21/Oct/2022	20/Oct/2023
Pulse Sensor	Anritsu	MA2411B	1339407	300MHz~40GHz	17/Dec/2021	16/Dec/2022
Power Meter	Anritsu	ML2495A	1517010	300MHz~40GHz	20/Dec/2021	19/Dec/2022
SENSE-15247_FS	Sporton	V5.10.7.16	N/A	N/A	N/A	N/A

### Instrument for Radiated Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	30MHz~1GHz 3m	31/Jul/2022	30/Jul/2023
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz~18GHz 3m	30/Jul/2022	29/Jul/2023
Signal Analyzer	R&S	FSP40	100593	9kHz~40GHz	08/Apr/2022	07/Apr/2023
Amplifier	Agilent	8447D	2944A11149	100kHz~1.3GHz	28/Jun/2022	27/Jun/2023
Microwave Preampifier	Agilent	8449B	3008A02373	1GHz~26.5GHz	02/Nov/2022	01/Nov/2023
Microwave System Prempifier	KEYSIGHT	83017A	MY53270197	1GHz~26.5GHz	30/Nov/2021	29/Nov/2022
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02268	1GHz ~18GHz	27/Sep/2022	26/Sep/2023
Bilog Antenna & 5dB Attenuator	SCHAFFNER / MTJ	CBL 6112B / MTJ6102-05	2723 / 2	30MHz~1GHz	28/Aug/2022	27/Aug/2023
RF Cable	MVE	400LL	MVE-1-0802	9kHz~30MHz	04/May/2022	03/May/2023
RF Cable	MVE	400LL	MVE-1-0802	30MHz~1GHz	04/May/2022	03/May/2023
RF Cable-R03m	HUBER+SUHNER	SUCOFLEX104	805193/4+805192/4	1GHz~40GHz	01/Apr/2022	31/Mar/2023
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	15GHz~40GHz	18/Mar/2022	17/Mar/2023
Microwave Prempifier	EMC INSTRUMENTS	EM18G40G	060604	18GHz~40GHz	08/Mar/2022	07/Mar/2023
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	18/Mar/2022	17/Mar/2023





Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
EMI Test Receiver	R&S	ESR3	102052	9kHz~3.6GHz	02/Nov/2022	01/Nov/2023
SENSE-15247_FS	Sporton	V5.10.7.14	N/A	N/A	N/A	N/A

**Instrument for Radiated Test (Co-location)**

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz~18GHz 3m	30/Jul/2022	29/Jul/2023
Signal Analyzer	R&S	FSP40	100593	9kHz~40GHz	08/Apr/2022	07/Apr/2023
Microwave Preamplifier	Agilent	8449B	3008A02373	1GHz~26.5GHz	02/Nov/2022	01/Nov/2023
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02268	1GHz ~18GHz	27/Sep/2022	26/Sep/2023
RF Cable-R03m	HUBER+SUHNE R	SUCOFLEX104	805193/4+805192 /4	1GHz~40GHz	01/Apr/2022	31/Mar/2023
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	15GHz~40GHz	18/Mar/2022	17/Mar/2023
Microwave Prempplier	EMC INSTRUMENTS	EM18G40G	060604	18GHz~40GHz	08/Mar/2022	07/Mar/2023
SENSE-EMI	Sporton	V5.10.8.3	N/A	N/A	N/A	N/A



**Summary**

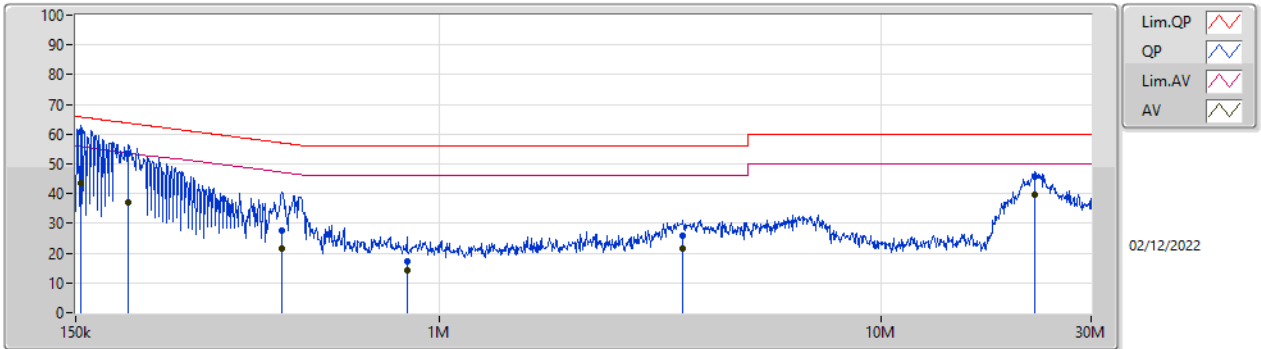
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	150.6k	60.82	65.96	-5.14	Neutral



Result

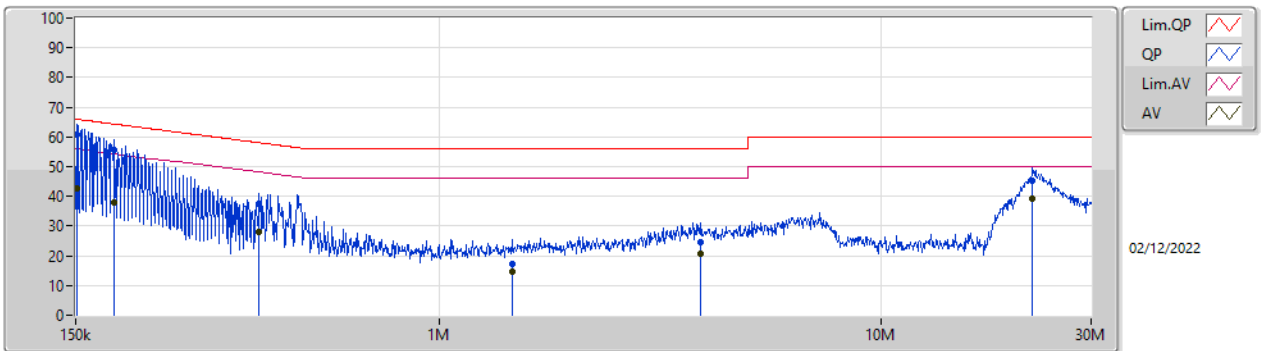
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 1	Pass	QP	153.636k	60.60	65.81	-5.21	Line	-
Mode 1	Pass	AV	153.636k	43.56	55.81	-12.25	Line	-
Mode 1	Pass	QP	197.568k	53.53	63.71	-10.18	Line	-
Mode 1	Pass	AV	197.568k	37.27	53.71	-16.44	Line	-
Mode 1	Pass	QP	440.751k	27.62	57.05	-29.43	Line	-
Mode 1	Pass	AV	440.751k	21.43	47.05	-25.62	Line	-
Mode 1	Pass	QP	844.868k	17.21	56.00	-38.79	Line	-
Mode 1	Pass	AV	844.868k	14.21	46.00	-31.79	Line	-
Mode 1	Pass	QP	3.57M	25.76	56.00	-30.24	Line	-
Mode 1	Pass	AV	3.57M	21.70	46.00	-24.30	Line	-
Mode 1	Pass	QP	22.396M	45.57	60.00	-14.43	Line	-
Mode 1	Pass	AV	22.396M	39.71	50.00	-10.29	Line	-
Mode 1	Pass	QP	150.6k	60.82	65.96	-5.14	Neutral	-
Mode 1	Pass	AV	150.6k	42.66	55.96	-13.30	Neutral	-
Mode 1	Pass	QP	183.87k	55.80	64.30	-8.50	Neutral	-
Mode 1	Pass	AV	183.87k	38.06	54.30	-16.24	Neutral	-
Mode 1	Pass	QP	391.005k	37.48	58.05	-20.57	Neutral	-
Mode 1	Pass	AV	391.005k	28.23	48.05	-19.82	Neutral	-
Mode 1	Pass	QP	1.46M	17.37	56.00	-38.63	Neutral	-
Mode 1	Pass	AV	1.46M	14.61	46.00	-31.39	Neutral	-
Mode 1	Pass	QP	3.898M	24.67	56.00	-31.33	Neutral	-
Mode 1	Pass	AV	3.898M	20.50	46.00	-25.50	Neutral	-
Mode 1	Pass	QP	22.129M	45.30	60.00	-14.70	Neutral	-
Mode 1	Pass	AV	22.129M	39.22	50.00	-10.78	Neutral	-

Conducted Emissions at Powerline\_Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)
QP	153.636k	60.60	65.81	-5.21	19.63	Line	-	40.97	9.69	0.03	9.91
AV	153.636k	43.56	55.81	-12.25	19.63	Line	-	23.93	9.69	0.03	9.91
QP	197.568k	53.53	63.71	-10.18	19.63	Line	-	33.90	9.69	0.03	9.91
AV	197.568k	37.27	53.71	-16.44	19.63	Line	-	17.64	9.69	0.03	9.91
QP	440.751k	27.62	57.05	-29.43	19.63	Line	-	7.99	9.68	0.04	9.91
AV	440.751k	21.43	47.05	-25.62	19.63	Line	-	1.80	9.68	0.04	9.91
QP	844.868k	17.21	56.00	-38.79	19.65	Line	-	-2.44	9.68	0.05	9.92
AV	844.868k	14.21	46.00	-31.79	19.65	Line	-	-5.44	9.68	0.05	9.92
QP	3.57M	25.76	56.00	-30.24	19.75	Line	-	6.01	9.71	0.12	9.92
AV	3.57M	21.70	46.00	-24.30	19.75	Line	-	1.95	9.71	0.12	9.92
QP	22.396M	45.57	60.00	-14.43	20.02	Line	-	25.55	9.80	0.29	9.93
AV	22.396M	39.71	50.00	-10.29	20.02	Line	-	19.69	9.80	0.29	9.93

Conducted Emissions at Powerline\_Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)
QP	150.6k	60.82	65.96	-5.14	19.67	Neutral	-	41.15	9.73	0.03	9.91
AV	150.6k	42.66	55.96	-13.30	19.67	Neutral	-	22.99	9.73	0.03	9.91
QP	183.87k	55.80	64.30	-8.50	19.66	Neutral	-	36.14	9.72	0.03	9.91
AV	183.87k	38.06	54.30	-16.24	19.66	Neutral	-	18.40	9.72	0.03	9.91
QP	391.005k	37.48	58.05	-20.57	19.67	Neutral	-	17.81	9.72	0.04	9.91
AV	391.005k	28.23	48.05	-19.82	19.67	Neutral	-	8.56	9.72	0.04	9.91
QP	1.46M	17.37	56.00	-38.63	19.73	Neutral	-	-2.36	9.74	0.07	9.92
AV	1.46M	14.61	46.00	-31.39	19.73	Neutral	-	-5.12	9.74	0.07	9.92
QP	3.898M	24.67	56.00	-31.33	19.81	Neutral	-	4.86	9.76	0.13	9.92
AV	3.898M	20.50	46.00	-25.50	19.81	Neutral	-	0.69	9.76	0.13	9.92
QP	22.129M	45.30	60.00	-14.70	20.25	Neutral	-	25.05	10.03	0.29	9.93
AV	22.129M	39.22	50.00	-10.78	20.25	Neutral	-	18.97	10.03	0.29	9.93

**Summary**

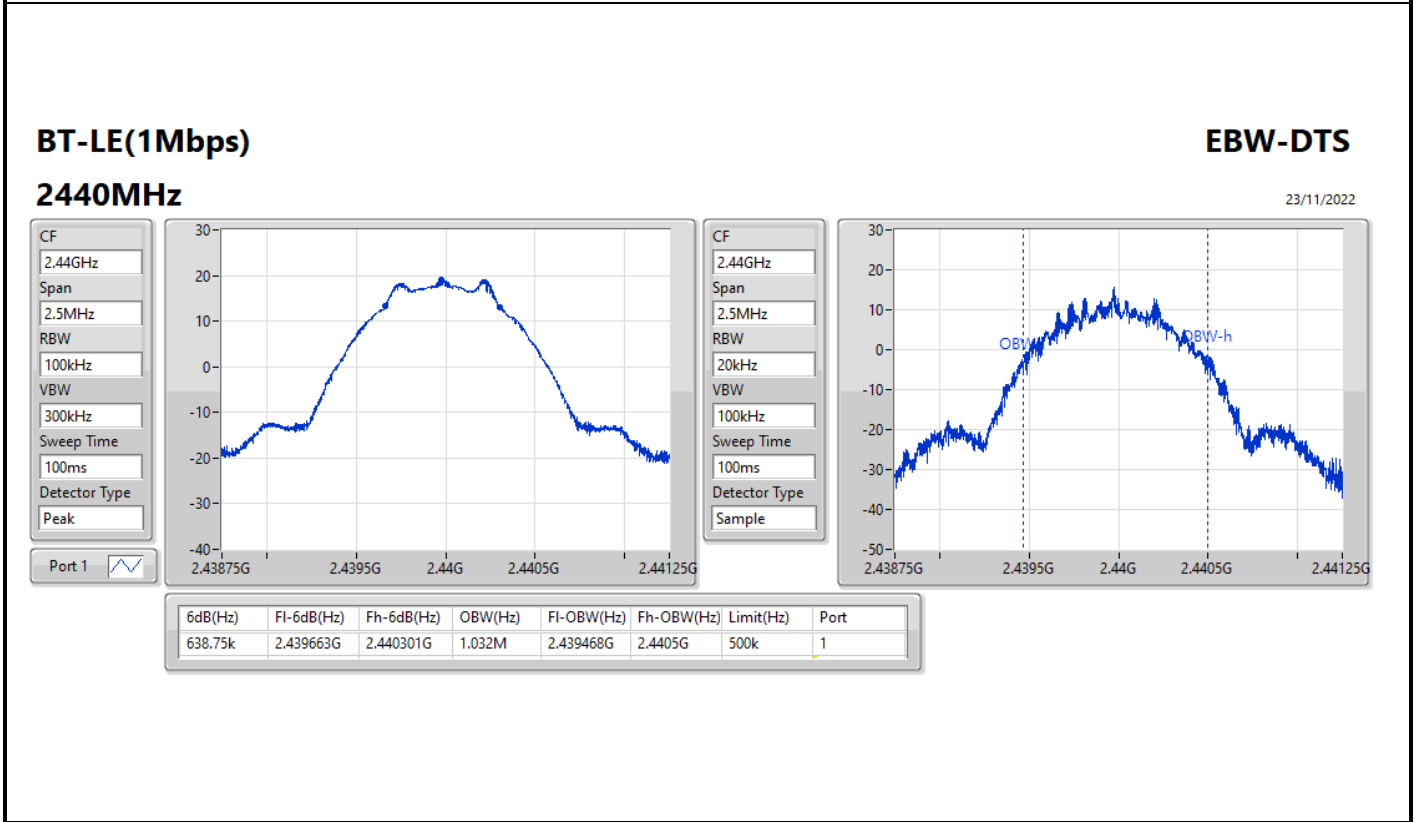
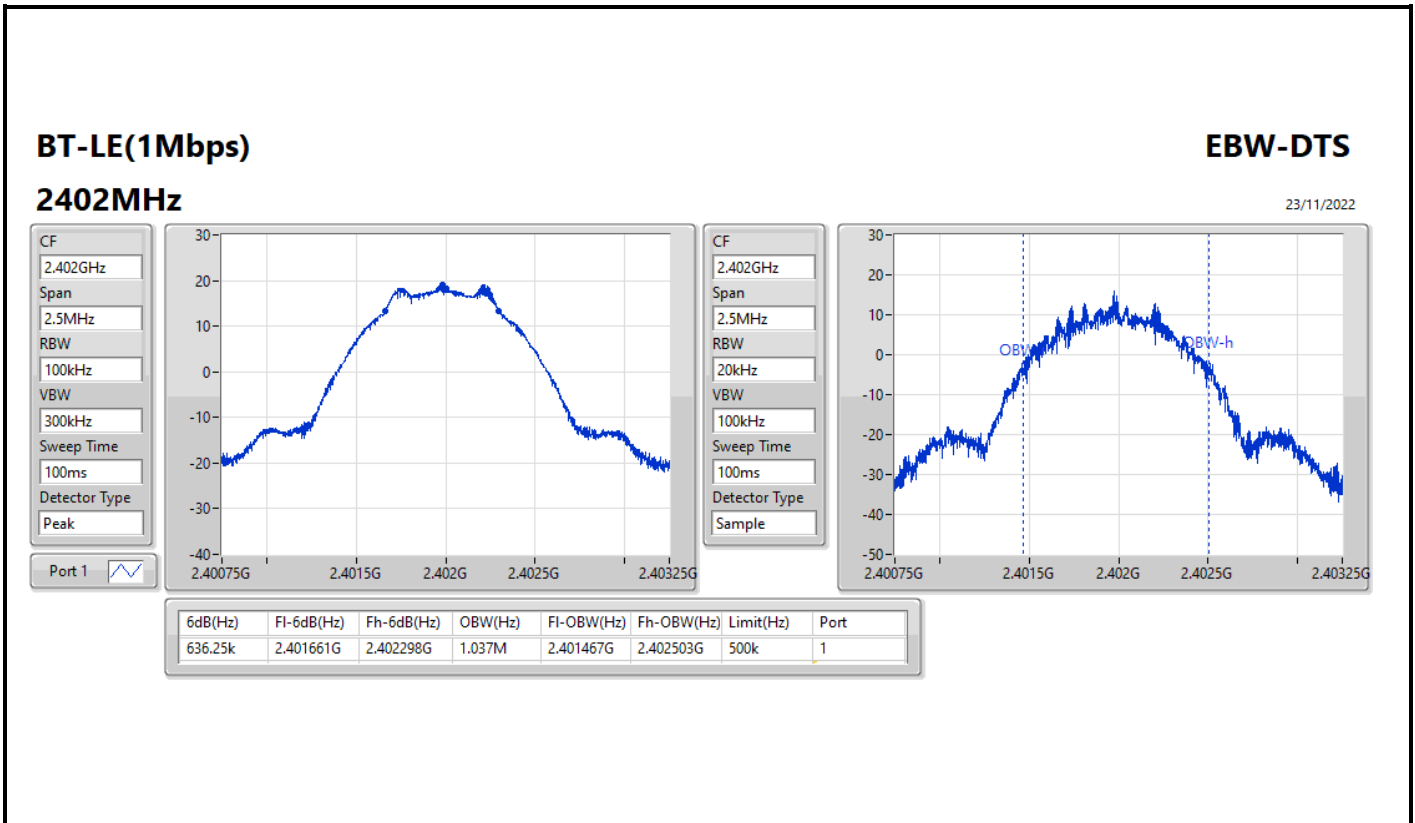
Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
BT-LE(1Mbps)	638.75k	1.037M	1M04F1D	636.25k	1.032M
BT-LE(2Mbps)	1.085M	2.104M	2M10F1D	1.08M	2.089M
BT-LE(125kbps)	618.75k	1.123M	1M12F1D	612.5k	1.121M
BT-LE(500kbps)	726.25k	1.084M	1M08F1D	722.5k	1.078M

Max-N dB = Maximum 6dB down bandwidth; Max-OBW = Maximum 99% occupied bandwidth;  
 Min-N dB = Minimum 6dB down bandwidth; Min-OBW = Minimum 99% occupied bandwidth

**Result**

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	500k	636.25k	1.037M
2440MHz	Pass	500k	638.75k	1.032M
2480MHz	Pass	500k	636.25k	1.037M
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	500k	1.085M	2.094M
2440MHz	Pass	500k	1.085M	2.089M
2480MHz	Pass	500k	1.08M	2.104M
BT-LE(125kbps)	-	-	-	-
2402MHz	Pass	500k	612.5k	1.121M
2440MHz	Pass	500k	618.75k	1.122M
2480MHz	Pass	500k	612.5k	1.123M
BT-LE(500kbps)	-	-	-	-
2402MHz	Pass	500k	726.25k	1.084M
2440MHz	Pass	500k	726.25k	1.082M
2480MHz	Pass	500k	722.5k	1.078M

Port X-N dB = Port X 6dB down bandwidth;  
 Port X-OBW = Port X 99% occupied bandwidth

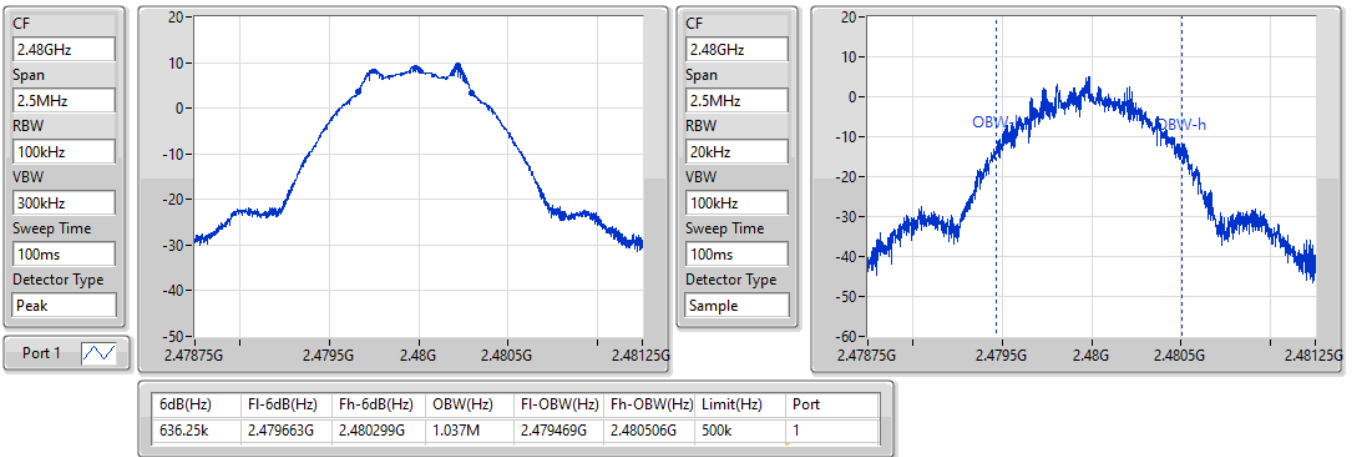


**BT-LE(1Mbps)**

**EBW-DTS**

2480MHz

23/11/2022

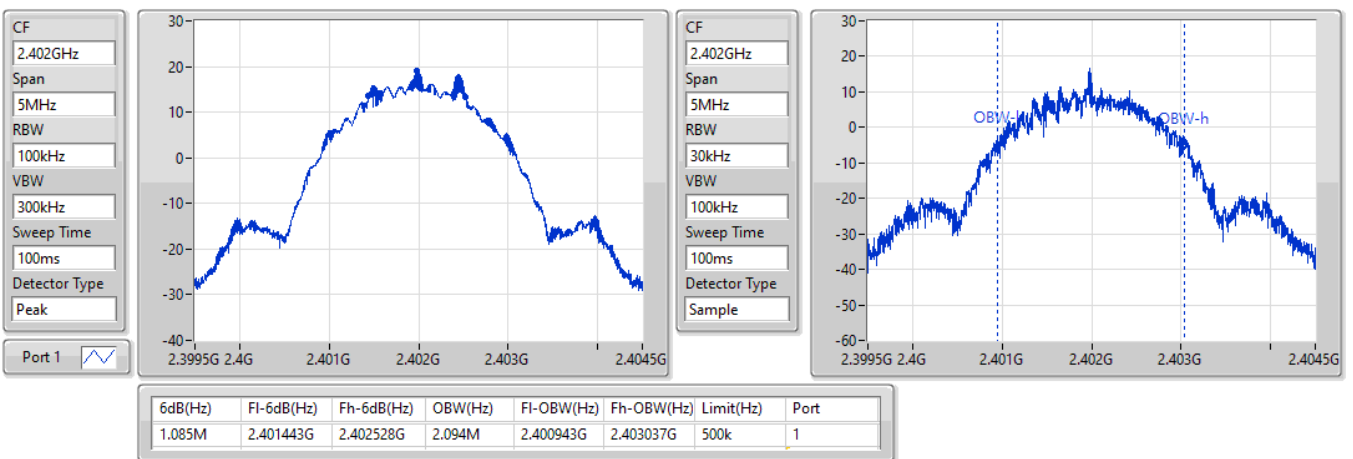


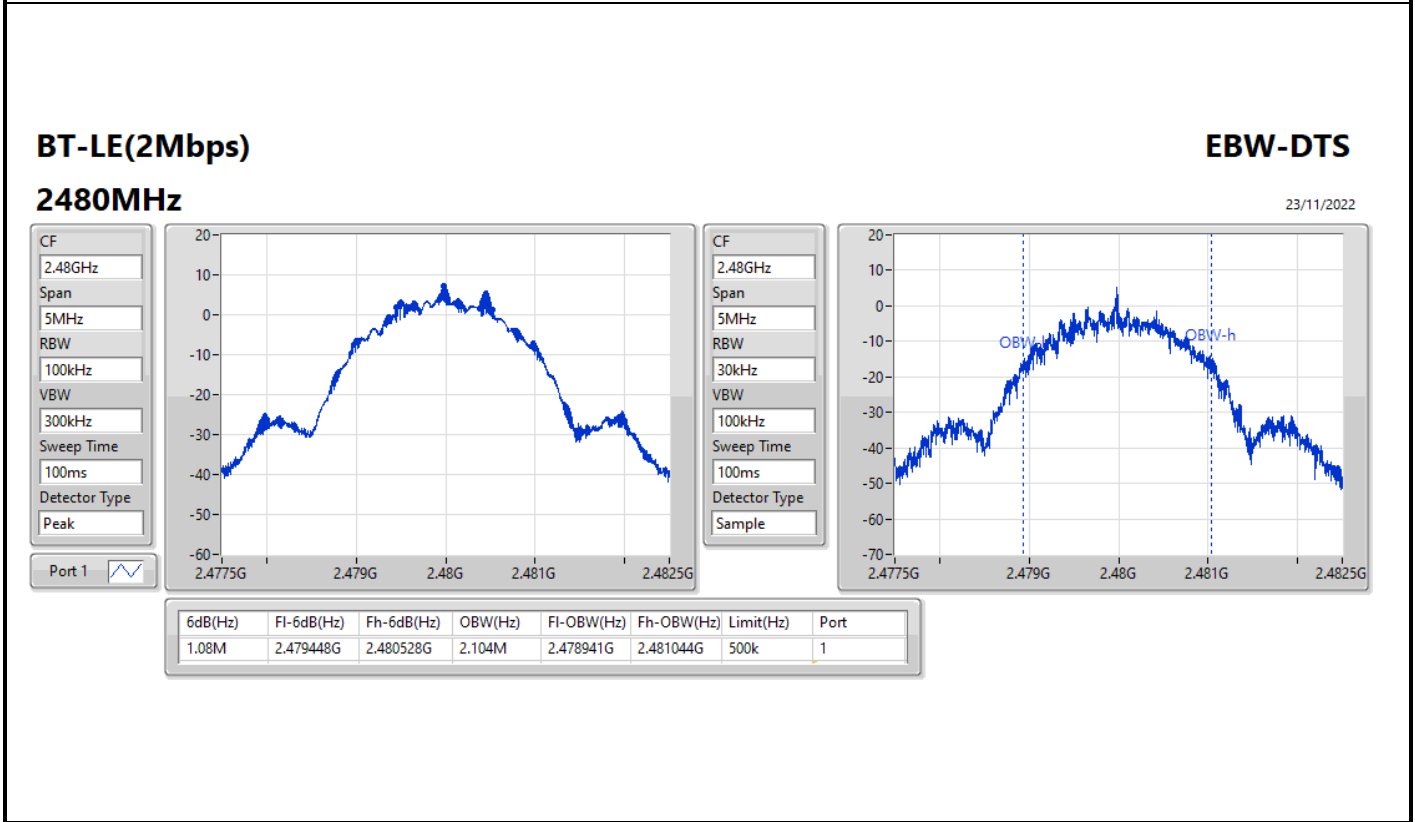
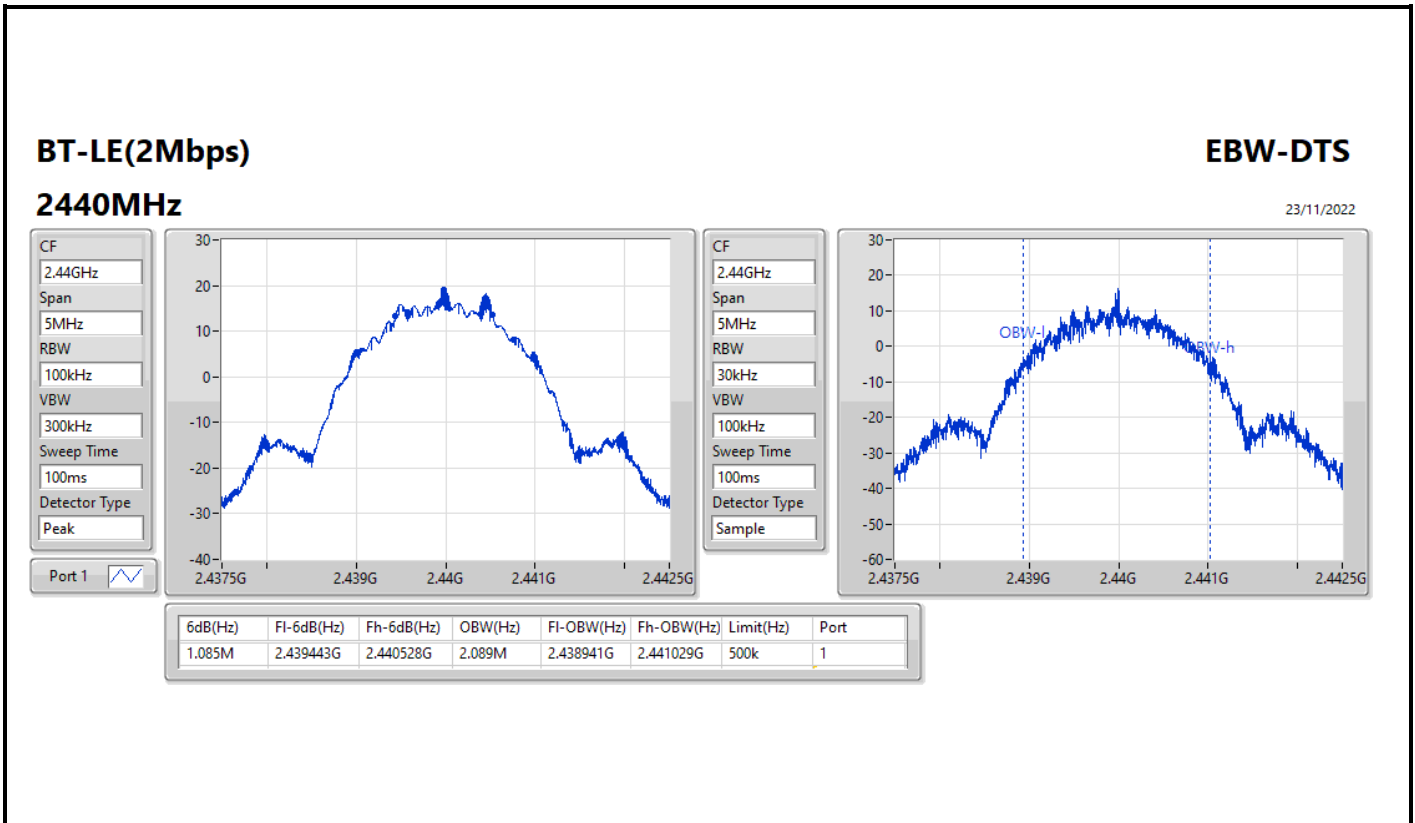
**BT-LE(2Mbps)**

**EBW-DTS**

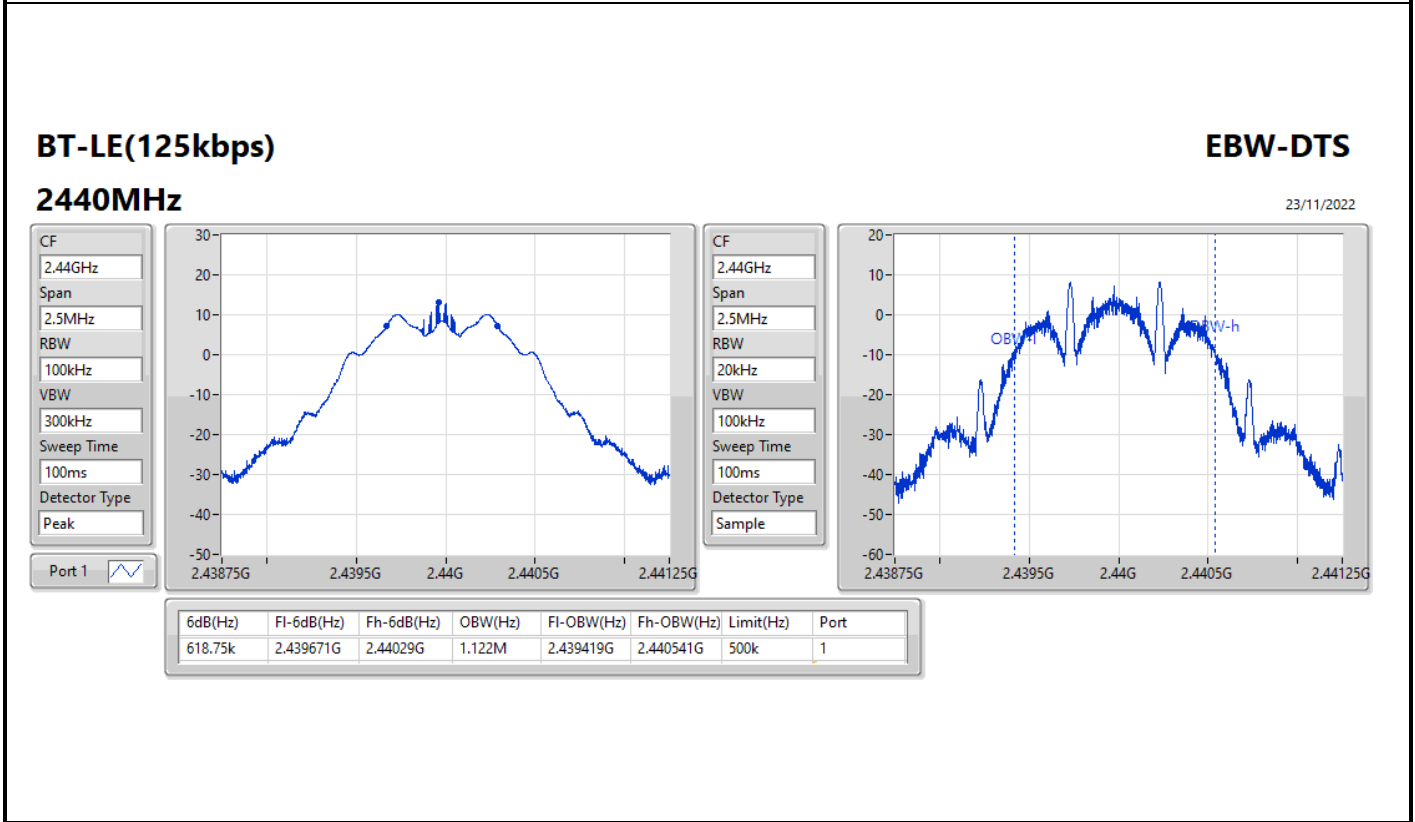
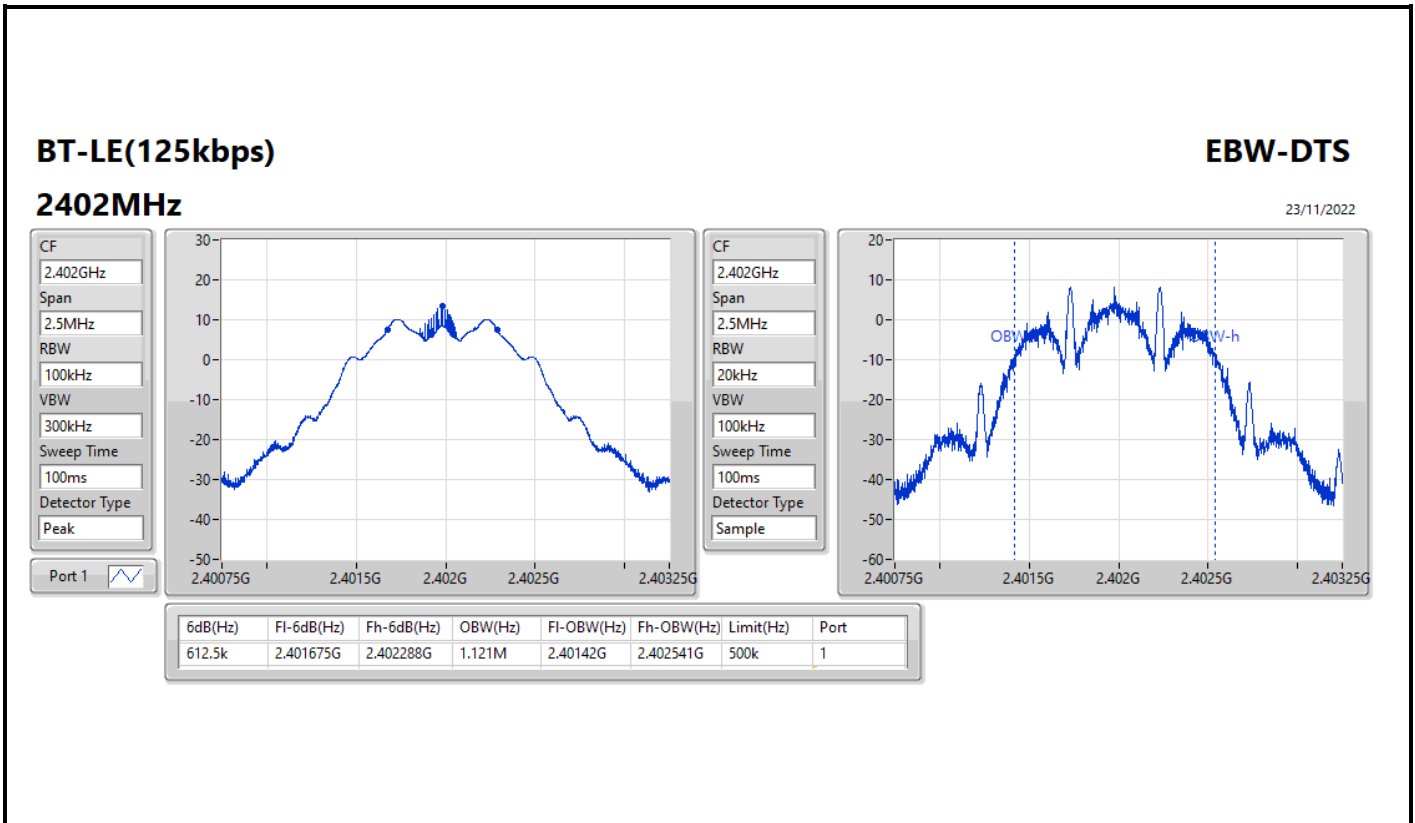
2402MHz

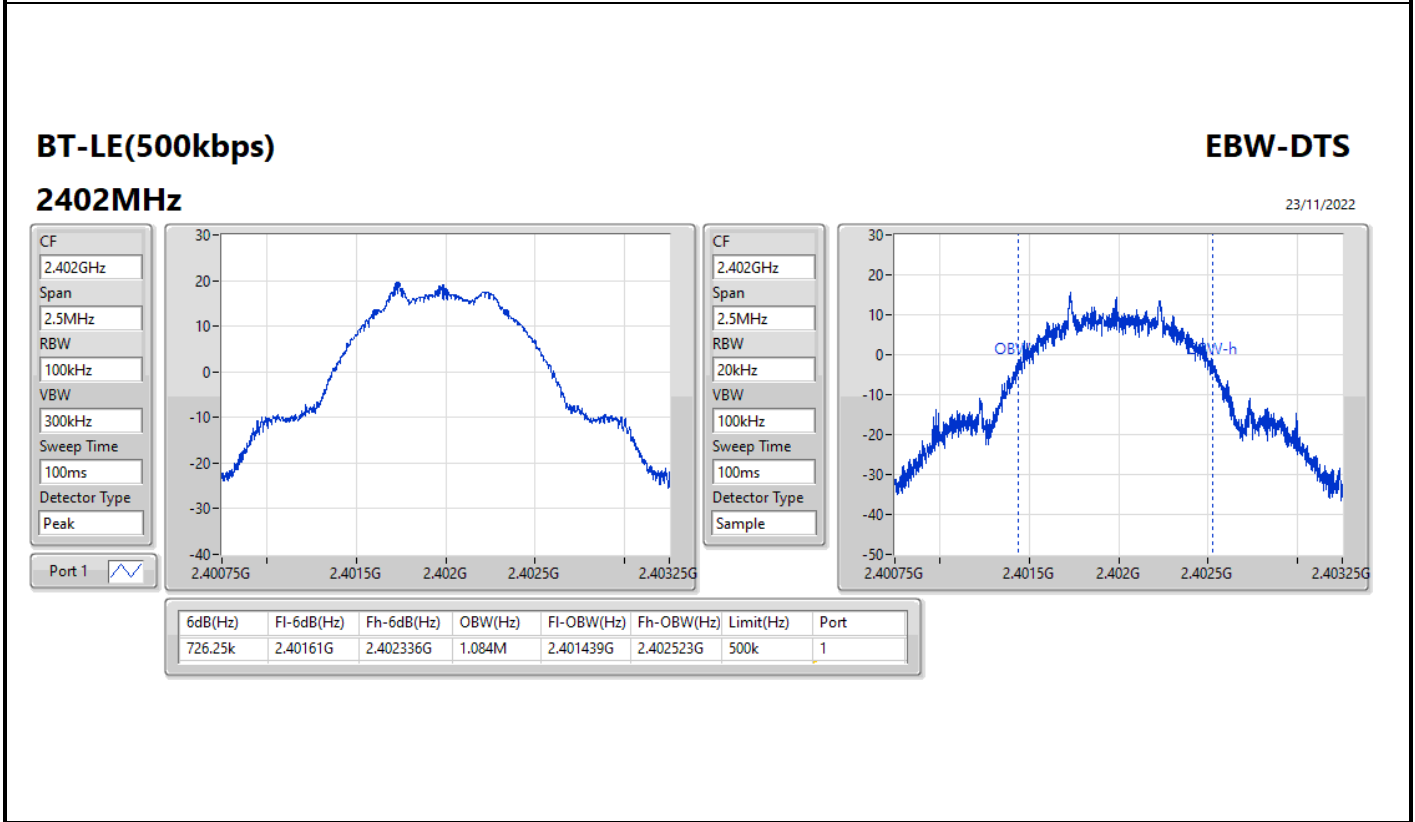
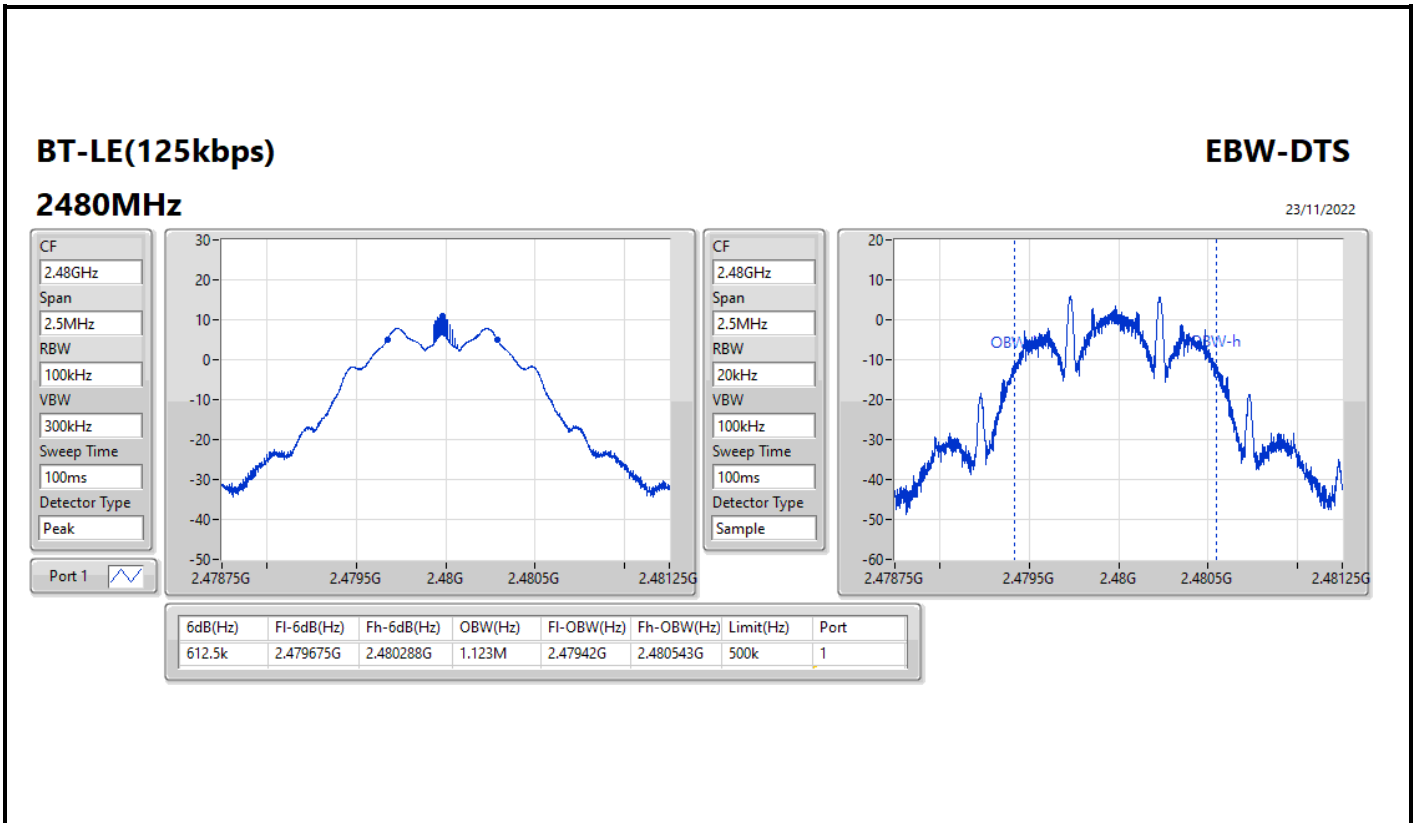
23/11/2022

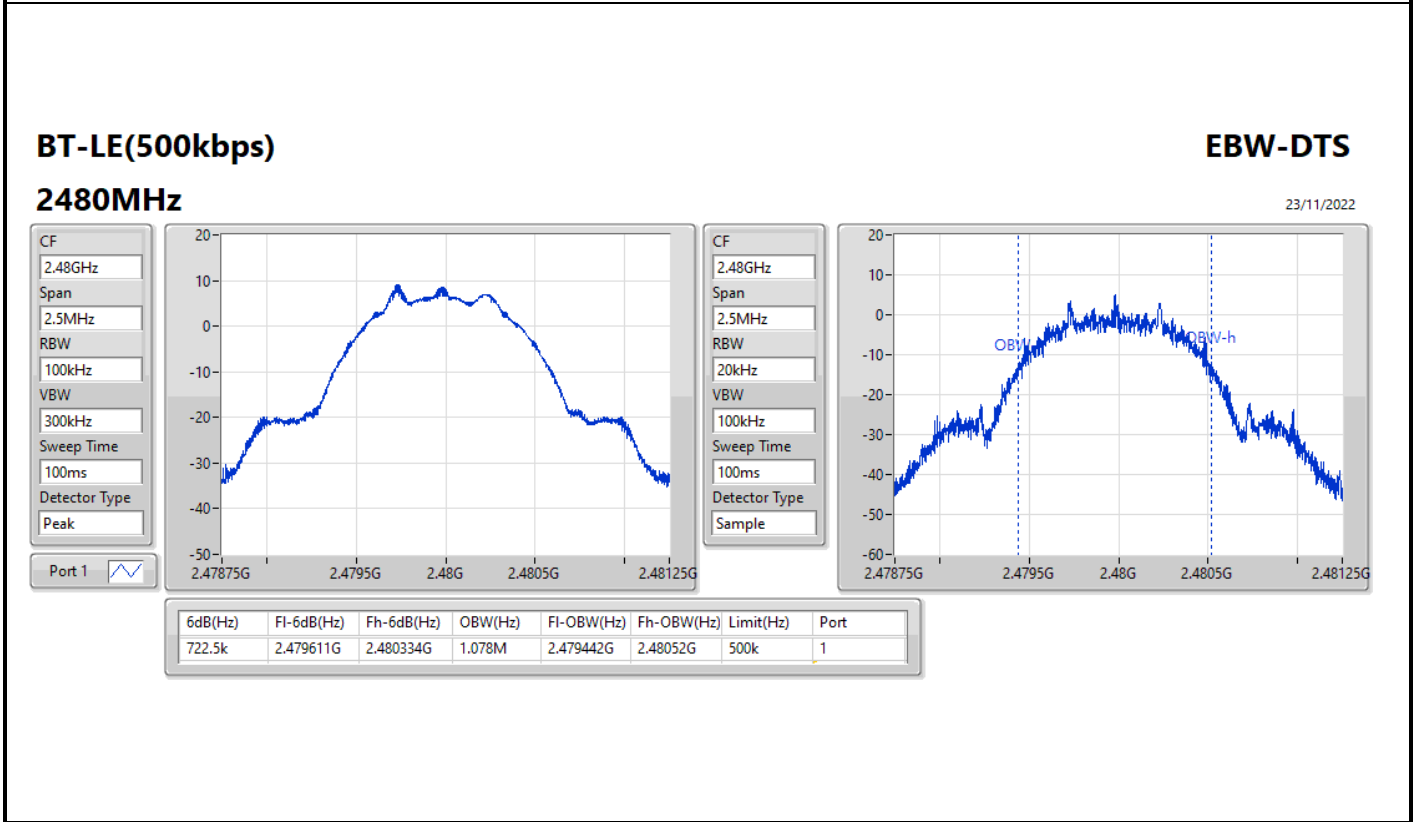
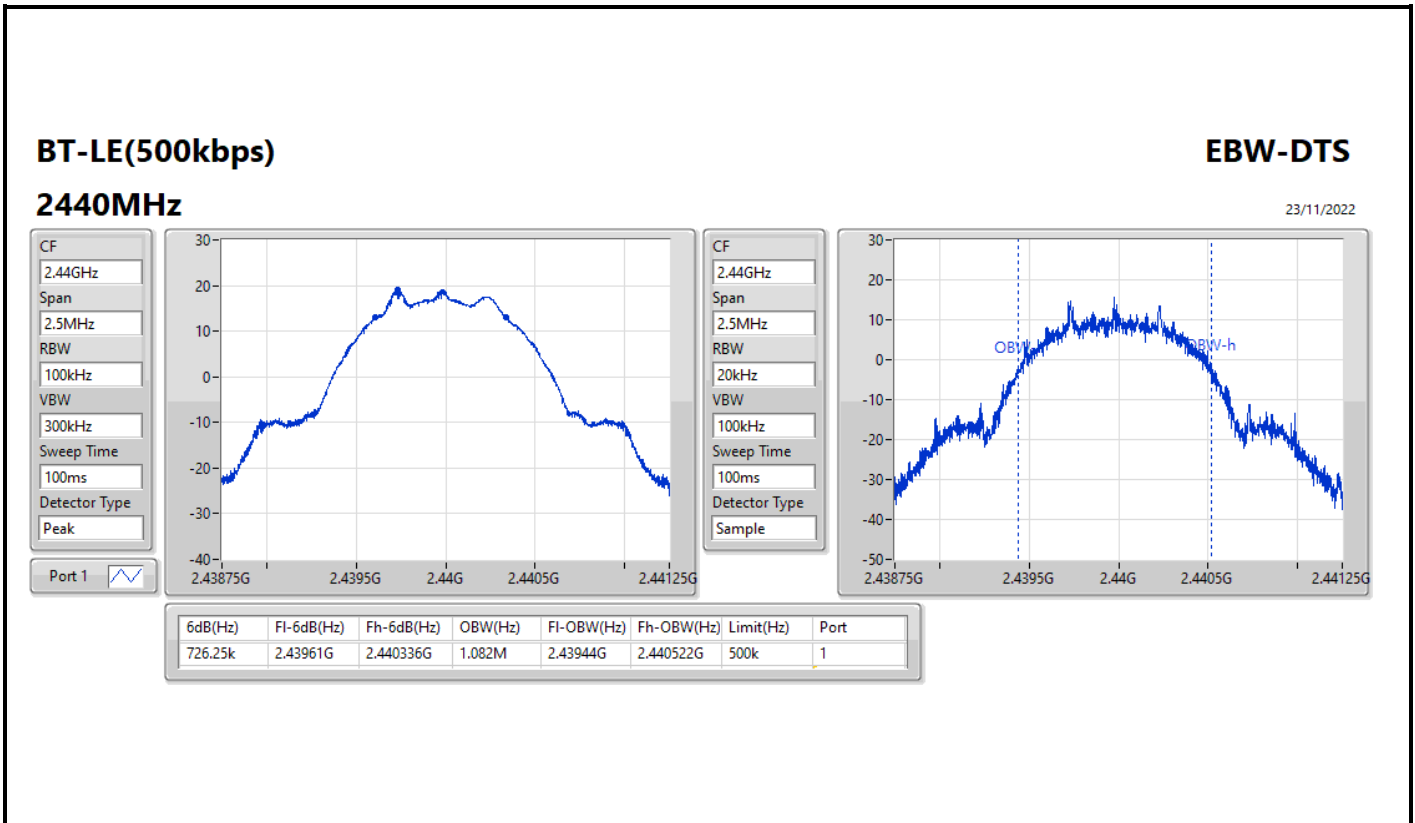














**Summary**

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-LE(1Mbps)	19.10	0.08128
BT-LE(2Mbps)	19.17	0.08260
BT-LE(125kbps)	13.42	0.02198
BT-LE(500kbps)	19.05	0.08035

**Result**

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	4.70	19.08	30.00
2440MHz	Pass	4.70	19.10	30.00
2480MHz	Pass	4.70	9.25	30.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	4.70	19.12	30.00
2440MHz	Pass	4.70	19.17	30.00
2480MHz	Pass	4.70	7.02	30.00
BT-LE(125kbps)	-	-	-	-
2402MHz	Pass	4.70	13.42	30.00
2440MHz	Pass	4.70	13.38	30.00
2480MHz	Pass	4.70	11.10	30.00
BT-LE(500kbps)	-	-	-	-
2402MHz	Pass	4.70	19.04	30.00
2440MHz	Pass	4.70	19.05	30.00
2480MHz	Pass	4.70	8.49	30.00

DG = Directional Gain; Port X = Port X output power



Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
BT-LE(1Mbps)	3.19
BT-LE(2Mbps)	2.63
BT-LE(125kbps)	7.96
BT-LE(500kbps)	1.31

RBW = 3kHz;

Result

Mode	Result	Gain (dBi)	PD (dBm/RBW)	PD Limit (dBm/RBW)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	4.70	3.19	8.00
2440MHz	Pass	4.70	3.09	8.00
2480MHz	Pass	4.70	-6.45	8.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	4.70	2.50	8.00
2440MHz	Pass	4.70	2.63	8.00
2480MHz	Pass	4.70	-10.85	8.00
BT-LE(125kbps)	-	-	-	-
2402MHz	Pass	4.70	7.91	8.00
2440MHz	Pass	4.70	7.96	8.00
2480MHz	Pass	4.70	5.53	8.00
BT-LE(500kbps)	-	-	-	-
2402MHz	Pass	4.70	0.97	8.00
2440MHz	Pass	4.70	1.31	8.00
2480MHz	Pass	4.70	1.23	8.00

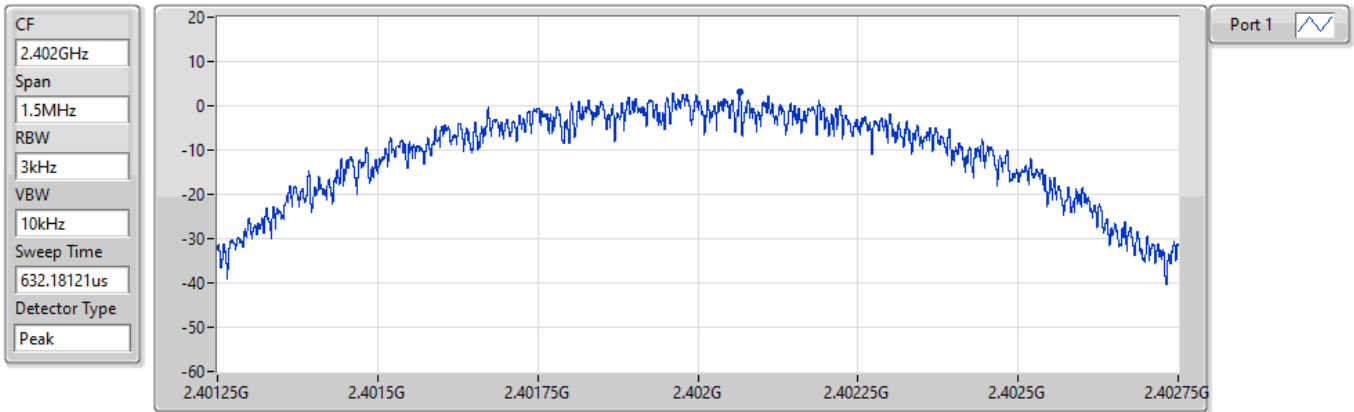
DG = Directional Gain; RBW = 3kHz;  
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

### BT-LE(1Mbps)

### PSD

#### 2402MHz

23/11/2022



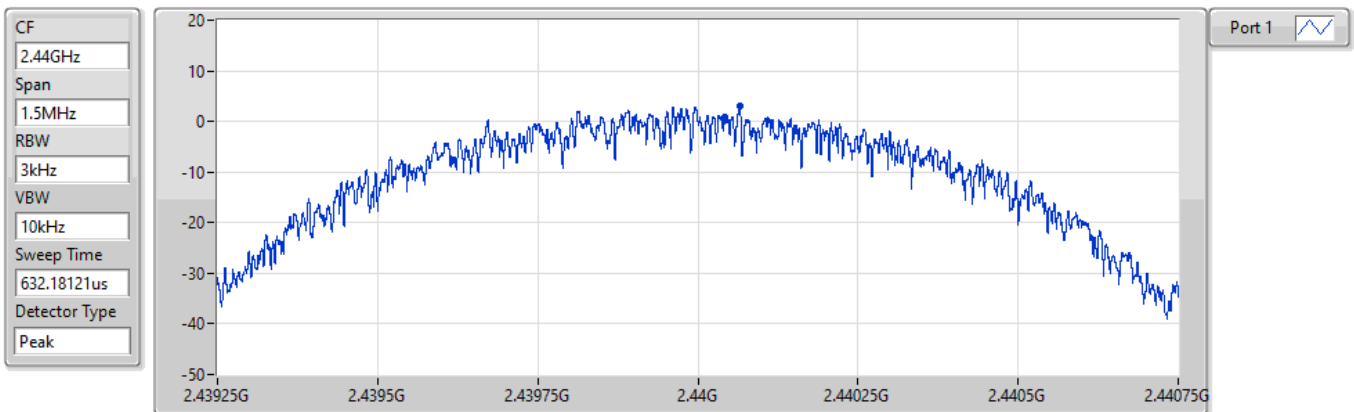
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.19	3.19	3.19

### BT-LE(1Mbps)

### PSD

#### 2440MHz

23/11/2022



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.09	3.09	3.09

### BT-LE(1Mbps)

### PSD

2480MHz

23/11/2022

CF  
2.48GHz

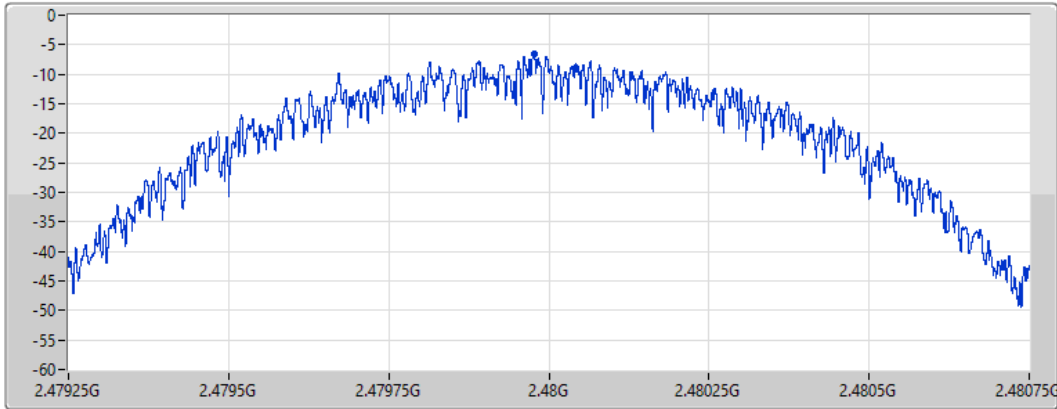
Span  
1.5MHz


RBW  
3kHz

VBW  
10kHz

Sweep Time  
632.18121us

Detector Type  
Peak



Port 1 

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-6.45	-6.45	-6.45

### BT-LE(2Mbps)

### PSD

2402MHz

23/11/2022

CF  
2.402GHz

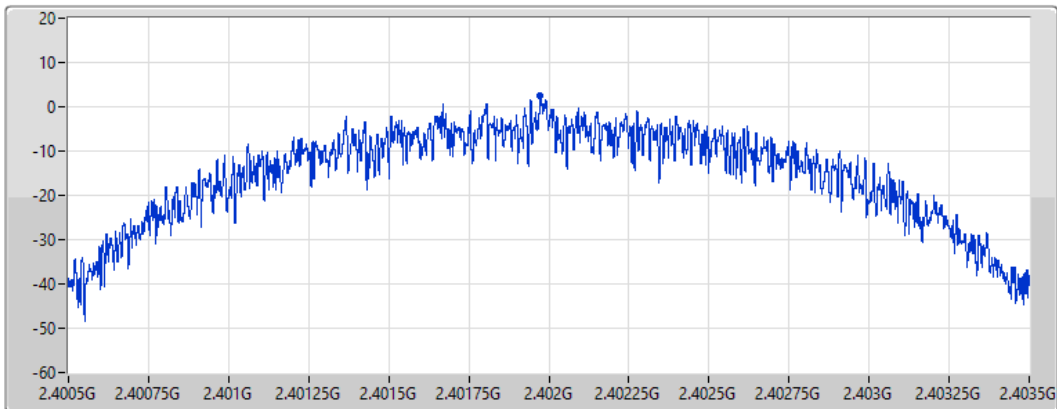
Span  
3MHz


RBW  
3kHz

VBW  
10kHz

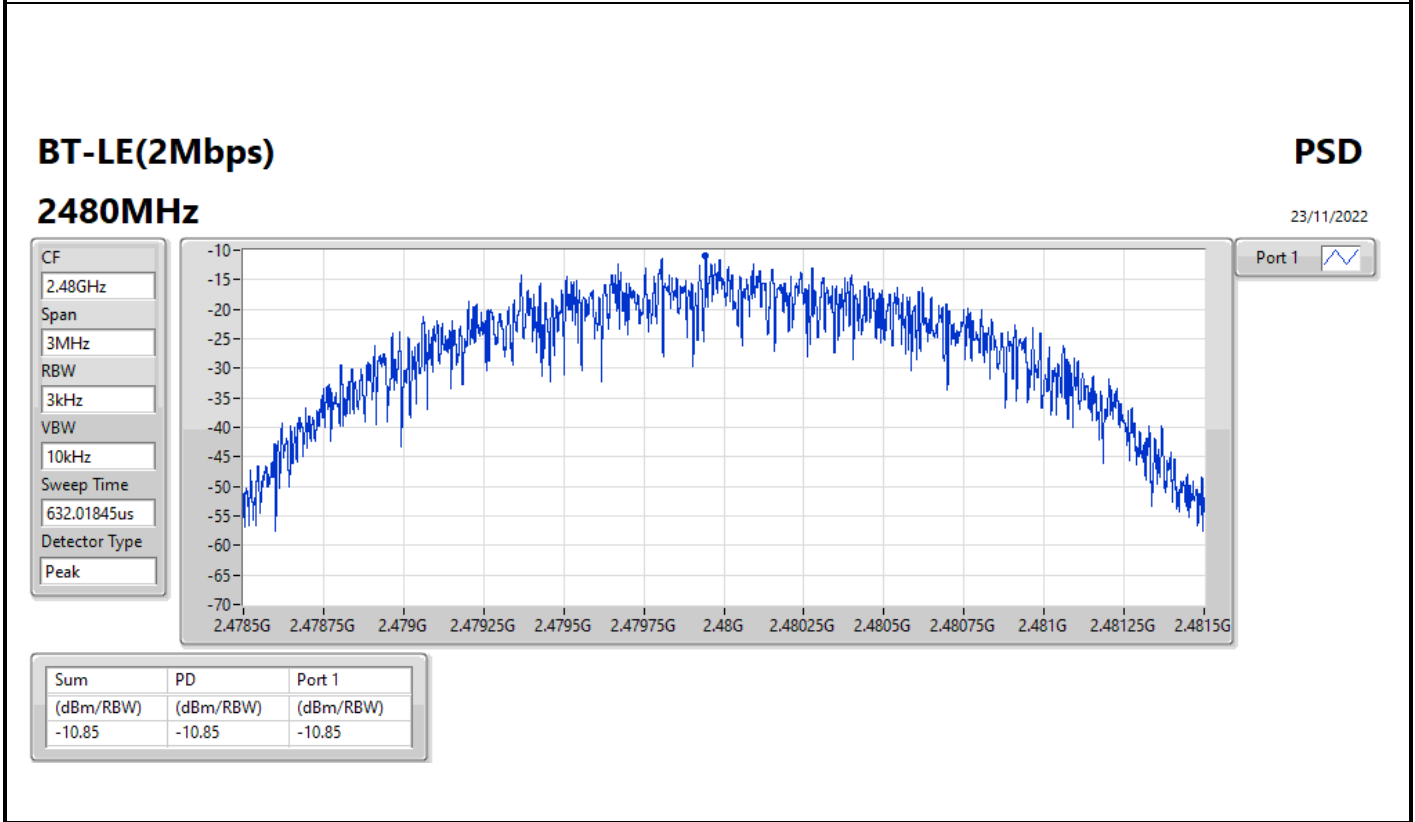
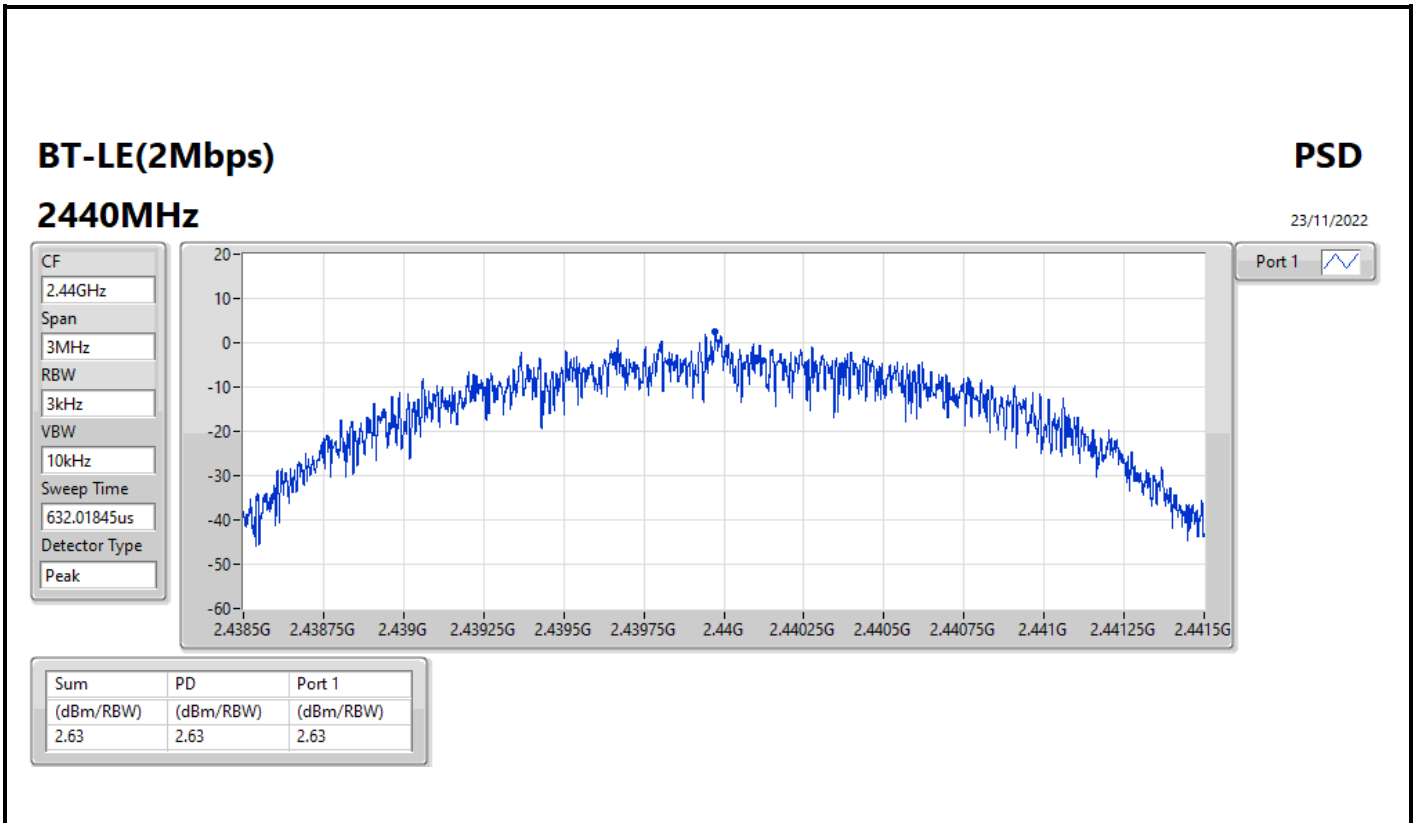
Sweep Time  
632.01845us

Detector Type  
Peak



Port 1 

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.50	2.50	2.50





**BT-LE(125kbps)**

**PSD**

**2402MHz**

23/11/2022

CF  
2.402GHz

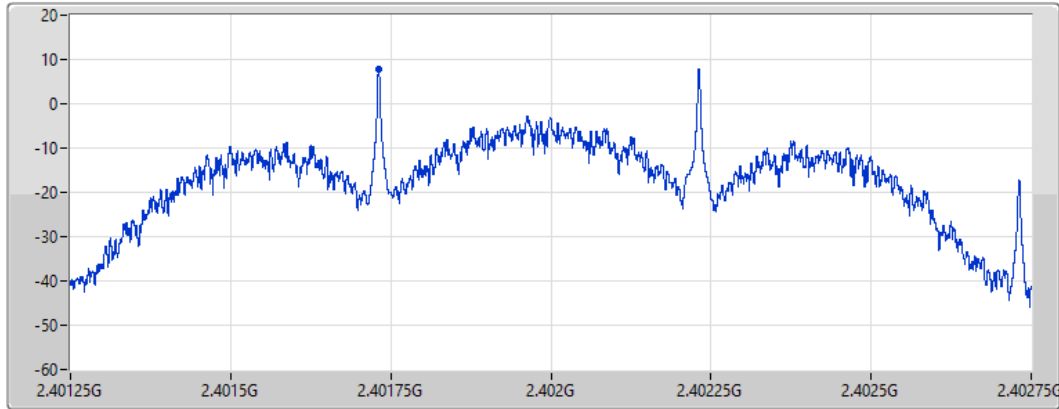
Span  
1.5MHz

RBW  
3kHz

VBW  
10kHz

Sweep Time  
632.18121us

Detector Type  
Peak



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.91	7.91	7.91

**BT-LE(125kbps)**

**PSD**

**2440MHz**

23/11/2022

CF  
2.44GHz

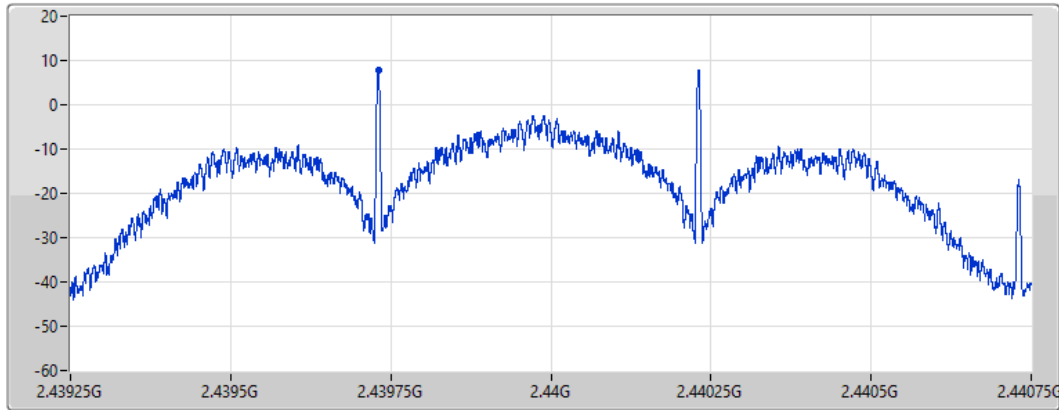
Span  
1.5MHz

RBW  
3kHz

VBW  
10kHz

Sweep Time  
632.18121us

Detector Type  
Peak



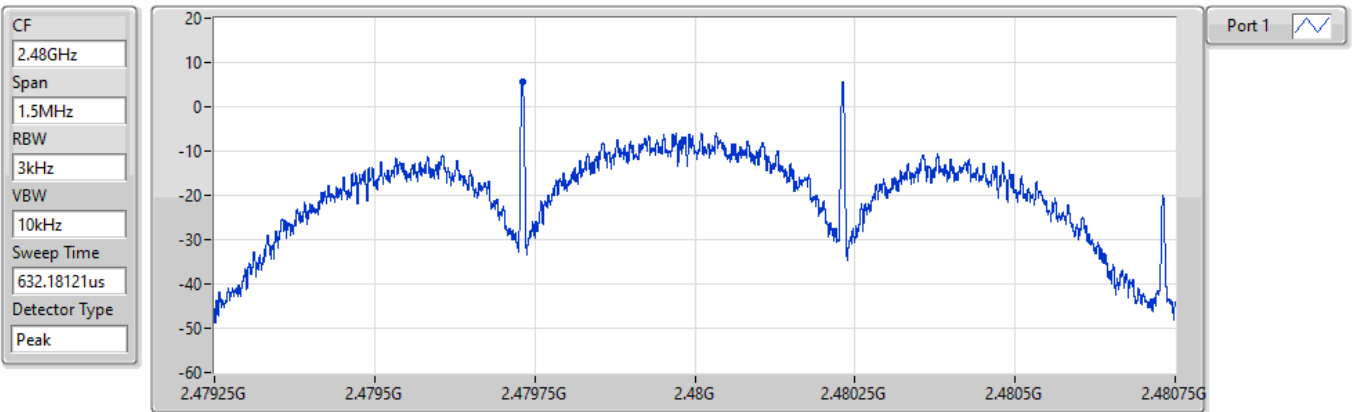
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.96	7.96	7.96

### BT-LE(125kbps)

### PSD

2480MHz

23/11/2022



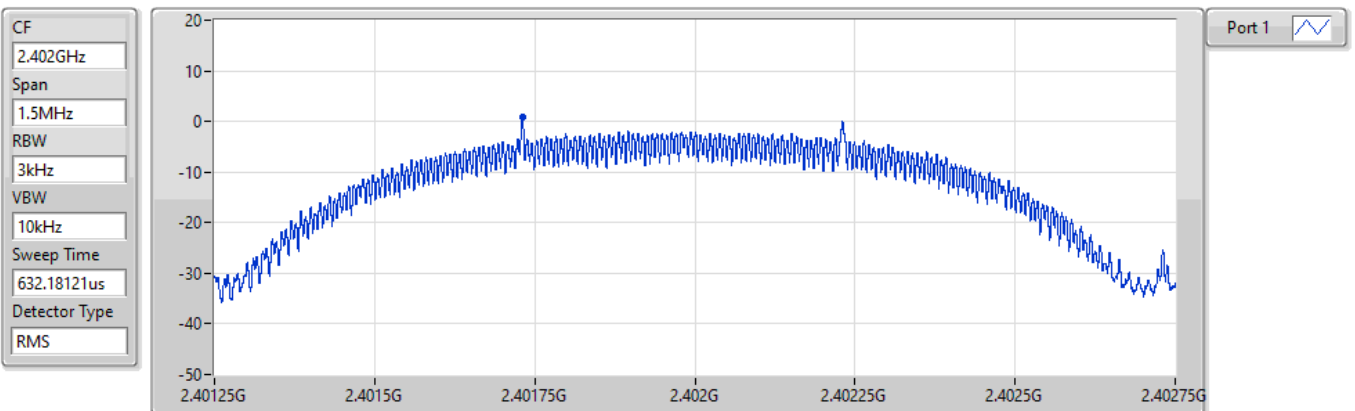
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.53	5.53	5.53

### BT-LE(500kbps)

### PSD

2402MHz

23/11/2022



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.97	0.97	0.97

**BT-LE(500kbps)**

**PSD**

**2440MHz**

23/11/2022

CF  
2.44GHz

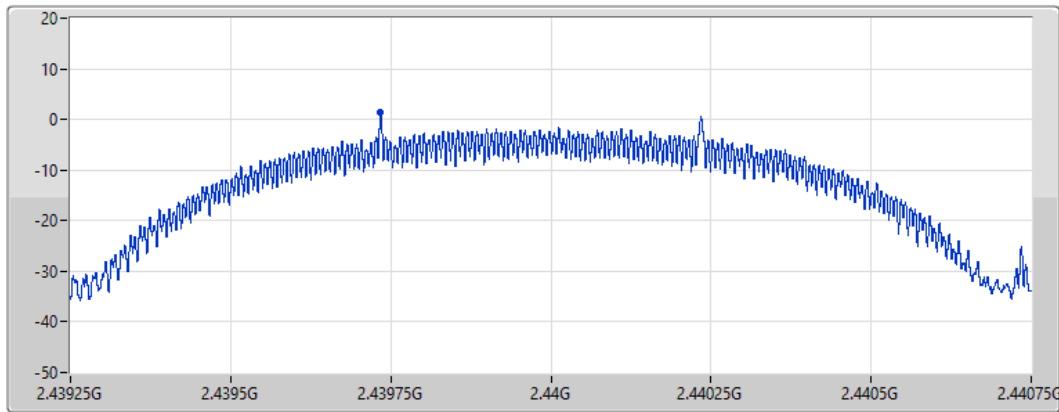
Span  
1.5MHz


RBW  
3kHz

VBW  
10kHz

Sweep Time  
632.18121us

Detector Type  
RMS



Port 1 

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.31	1.31	1.31

**BT-LE(500kbps)**

**PSD**

**2480MHz**

23/11/2022

CF  
2.48GHz

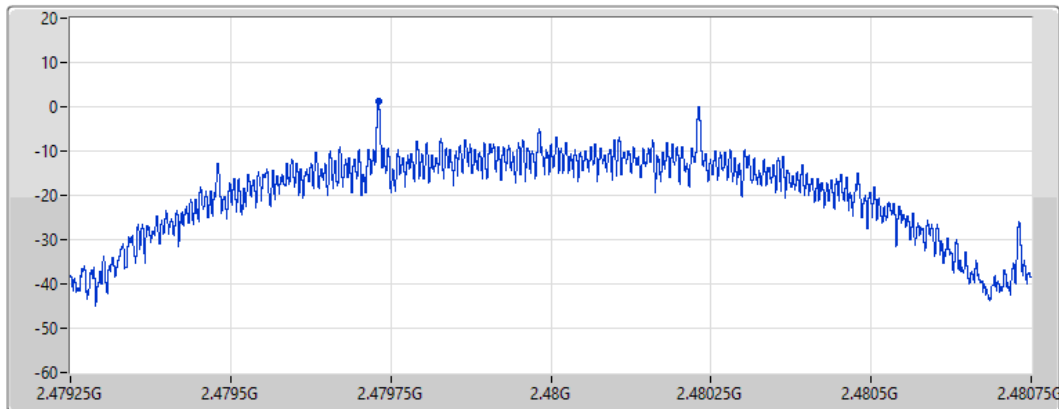
Span  
1.5MHz


RBW  
3kHz

VBW  
10kHz

Sweep Time  
632.18121us

Detector Type  
Peak



Port 1 

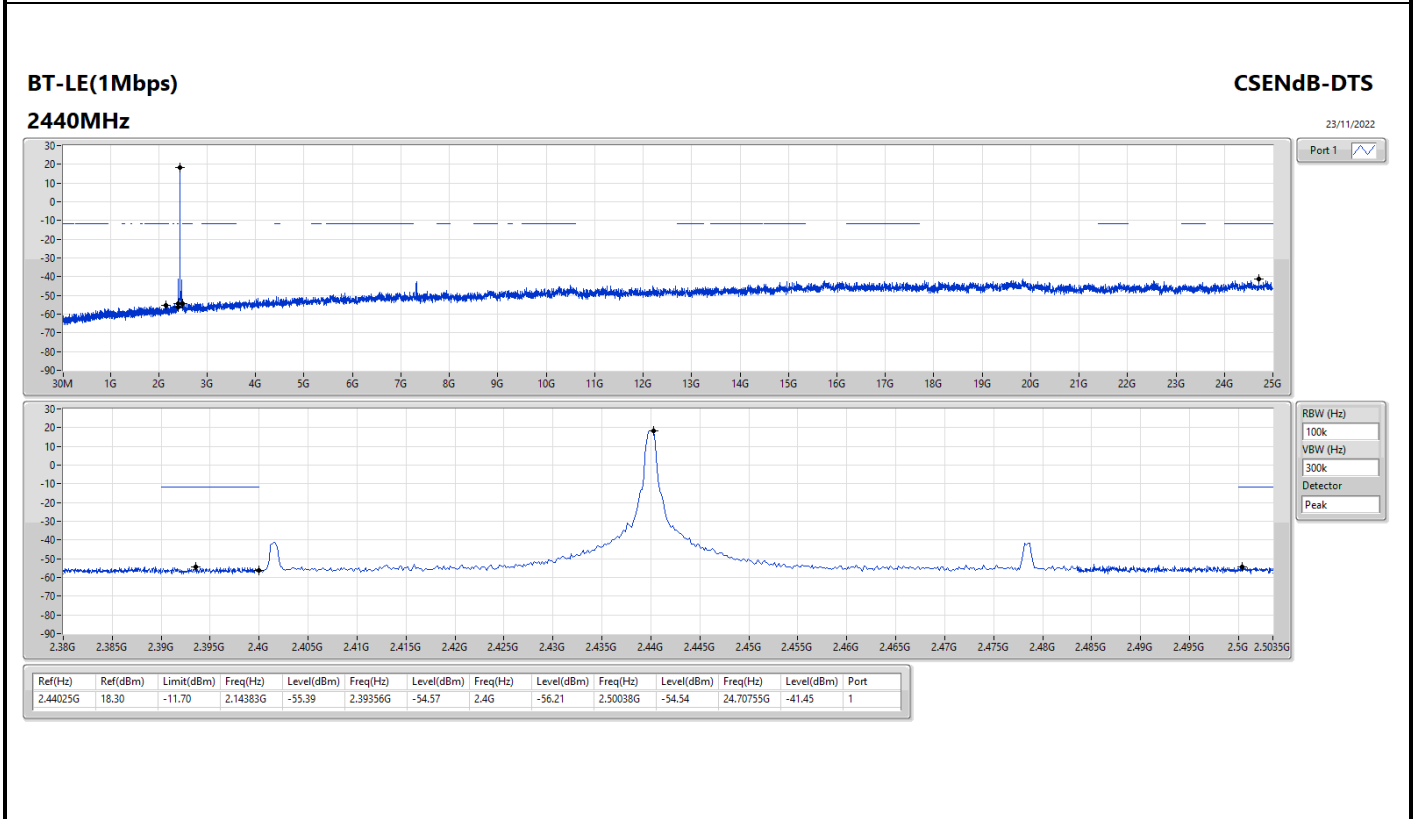
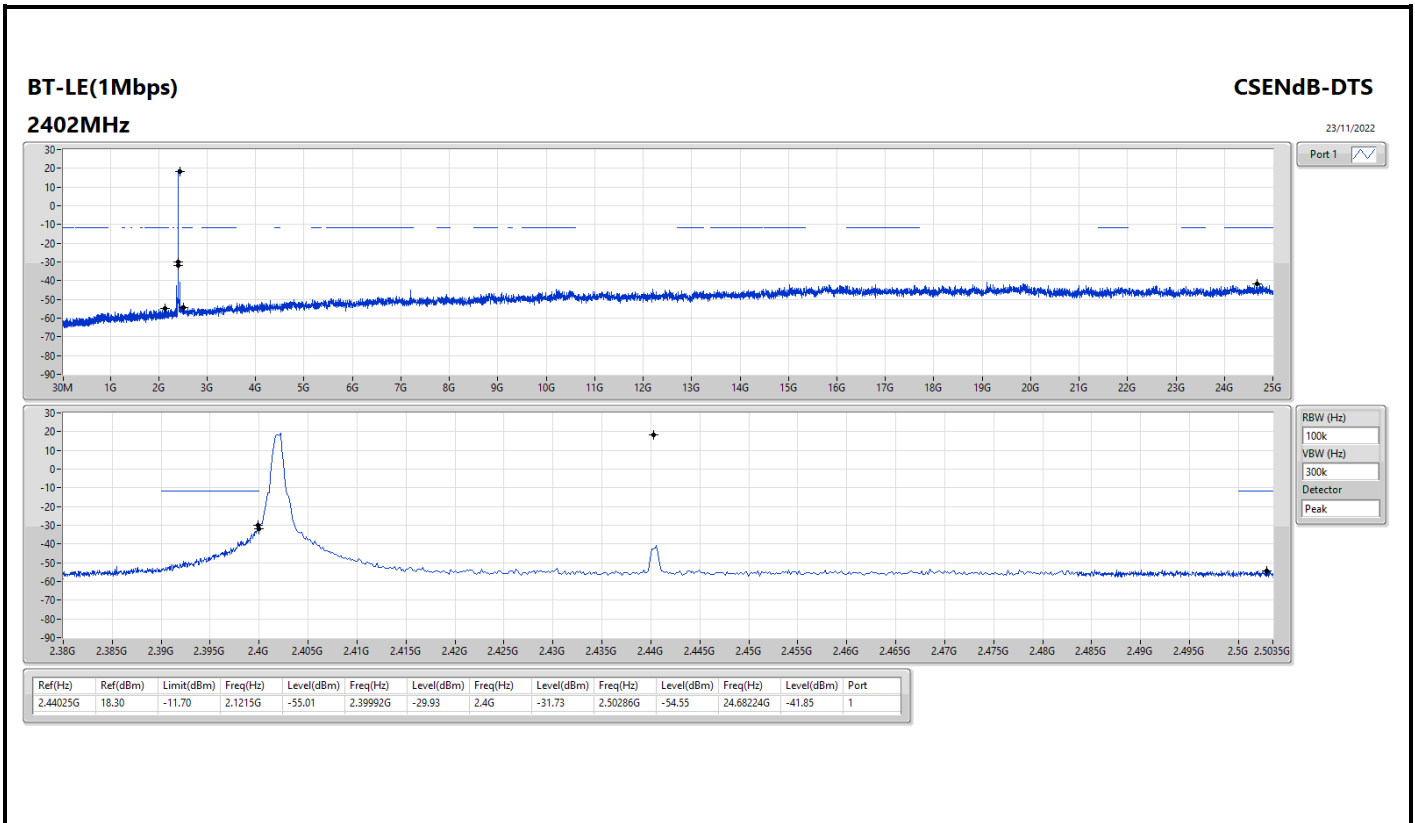
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.23	1.23	1.23

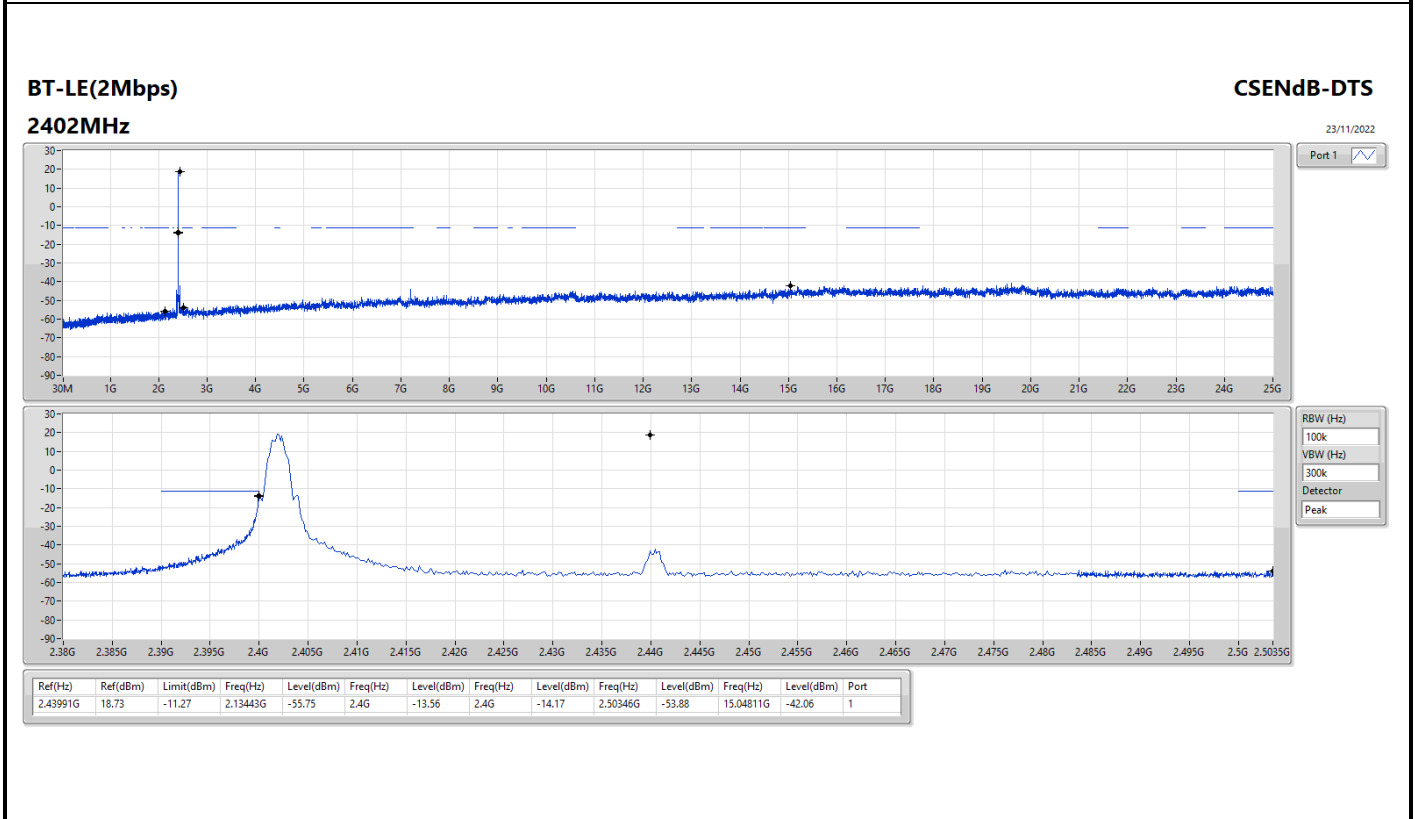
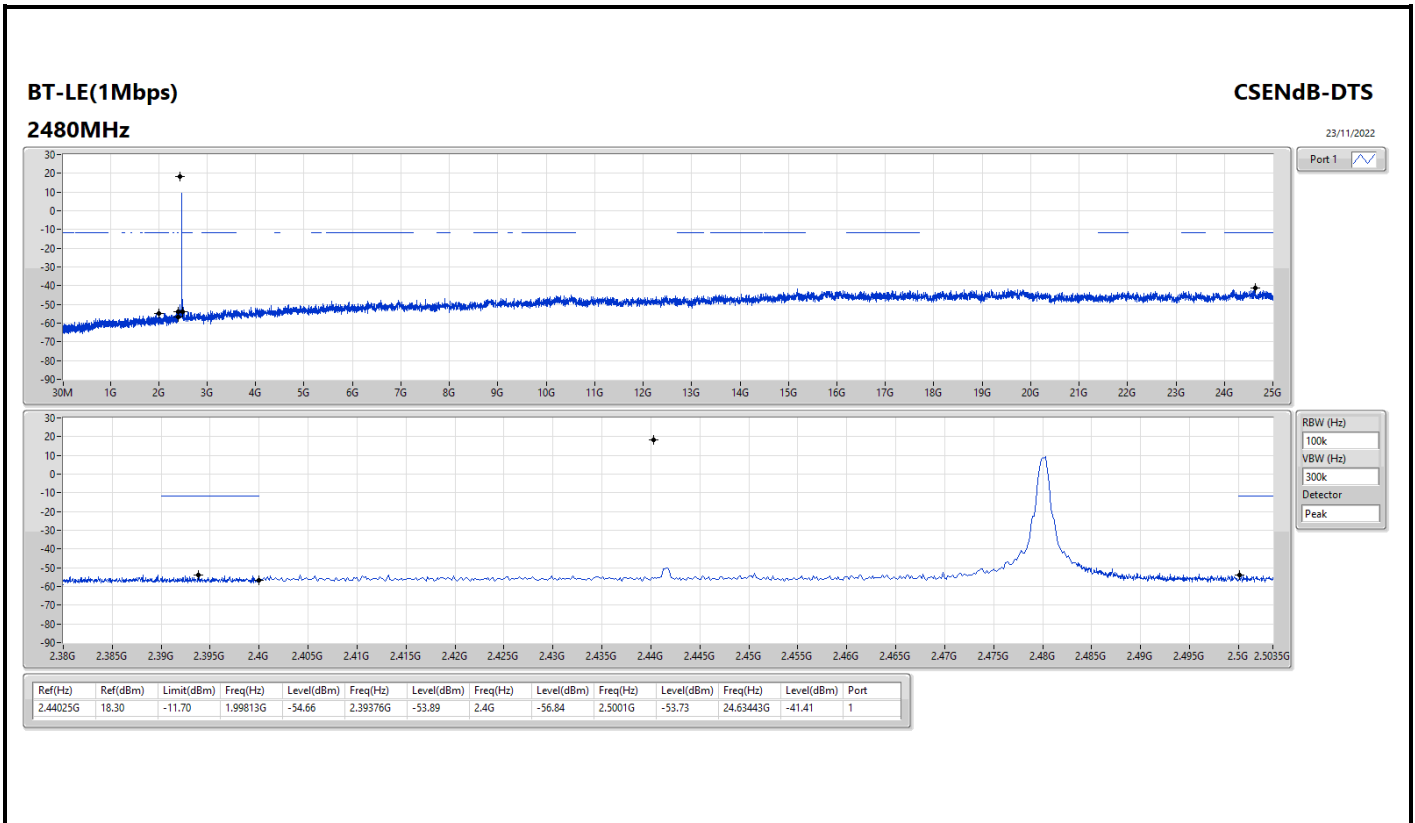
Summary

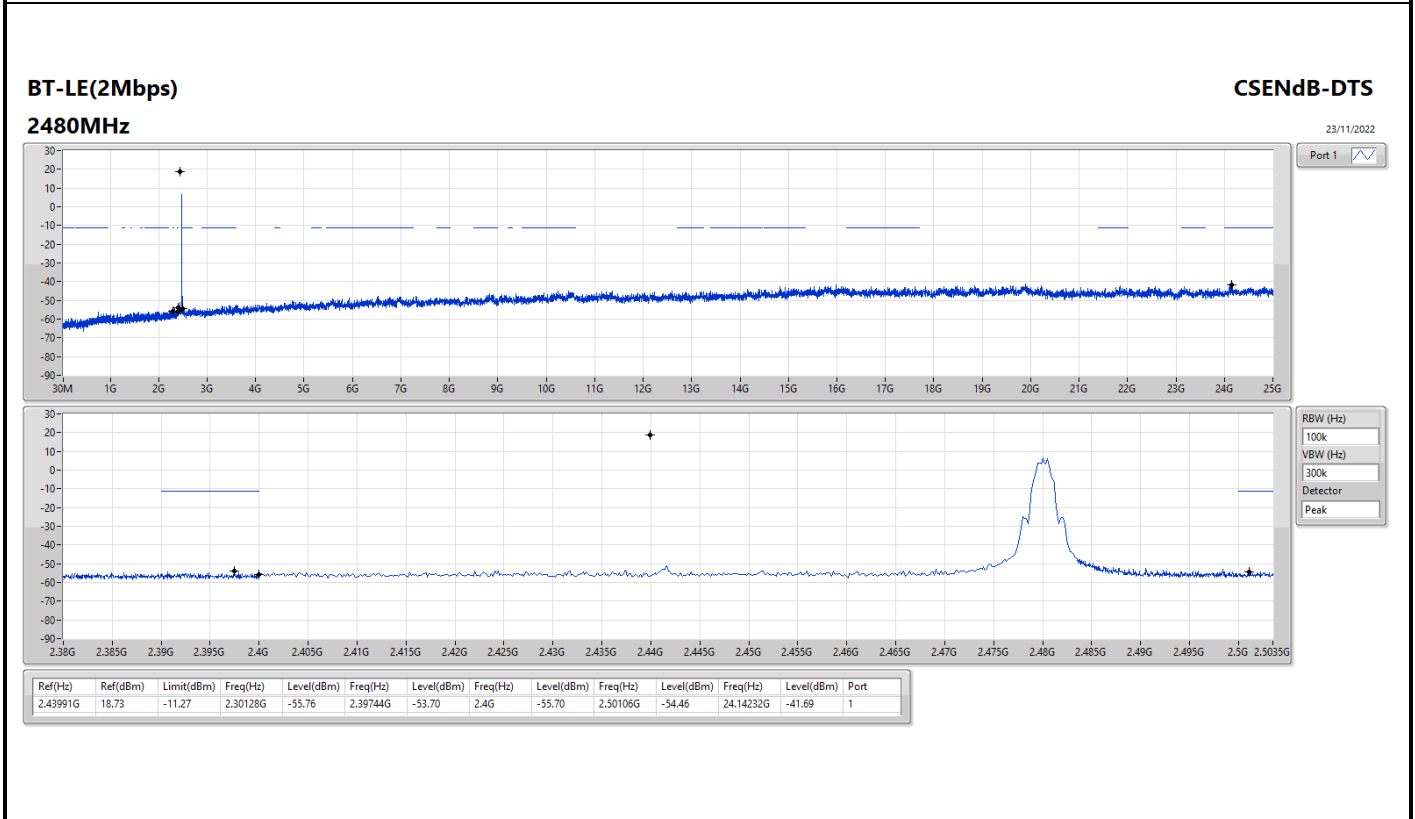
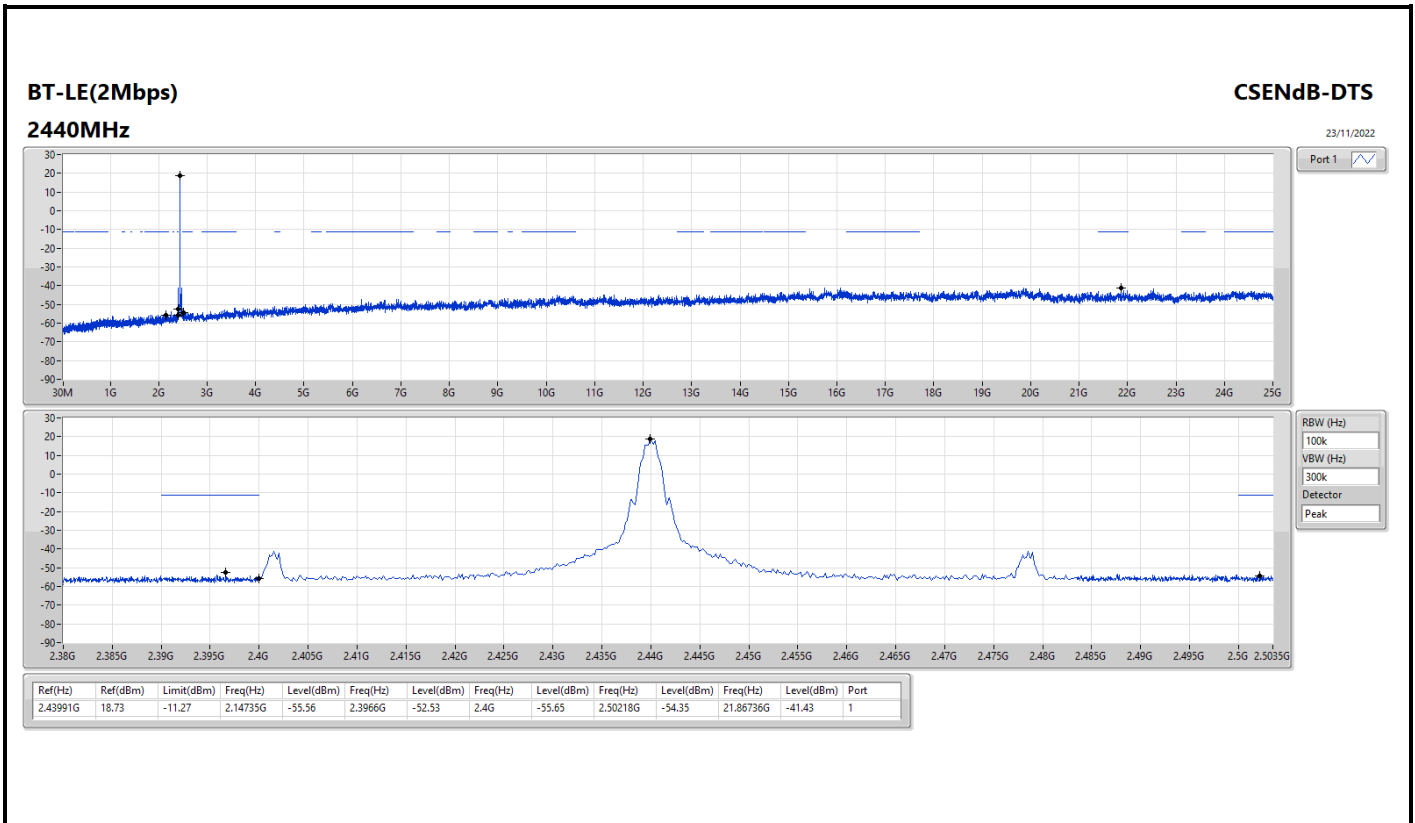
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BT-LE(1Mbps)	Pass	2.44025G	18.30	-11.70	2.1215G	-55.01	2.39992G	-29.93	2.4G	-31.73	2.50286G	-54.55	24.68224G	-41.85	1
BT-LE(2Mbps)	Pass	2.43991G	18.73	-11.27	2.13443G	-55.75	2.4G	-13.56	2.4G	-14.17	2.50346G	-53.88	15.04811G	-42.06	1
BT-LE(125kbps)	Pass	2.40167G	10.10	-19.90	2.3095G	-54.51	2.39992G	-39.61	2.4G	-39.62	2.50158G	-53.94	17.15716G	-42.38	1
BT-LE(500kbps)	Pass	2.43991G	18.37	-11.63	2.30363G	-54.74	2.39984G	-33.66	2.4G	-33.43	2.5013G	-54.37	16.20106G	-41.67	1

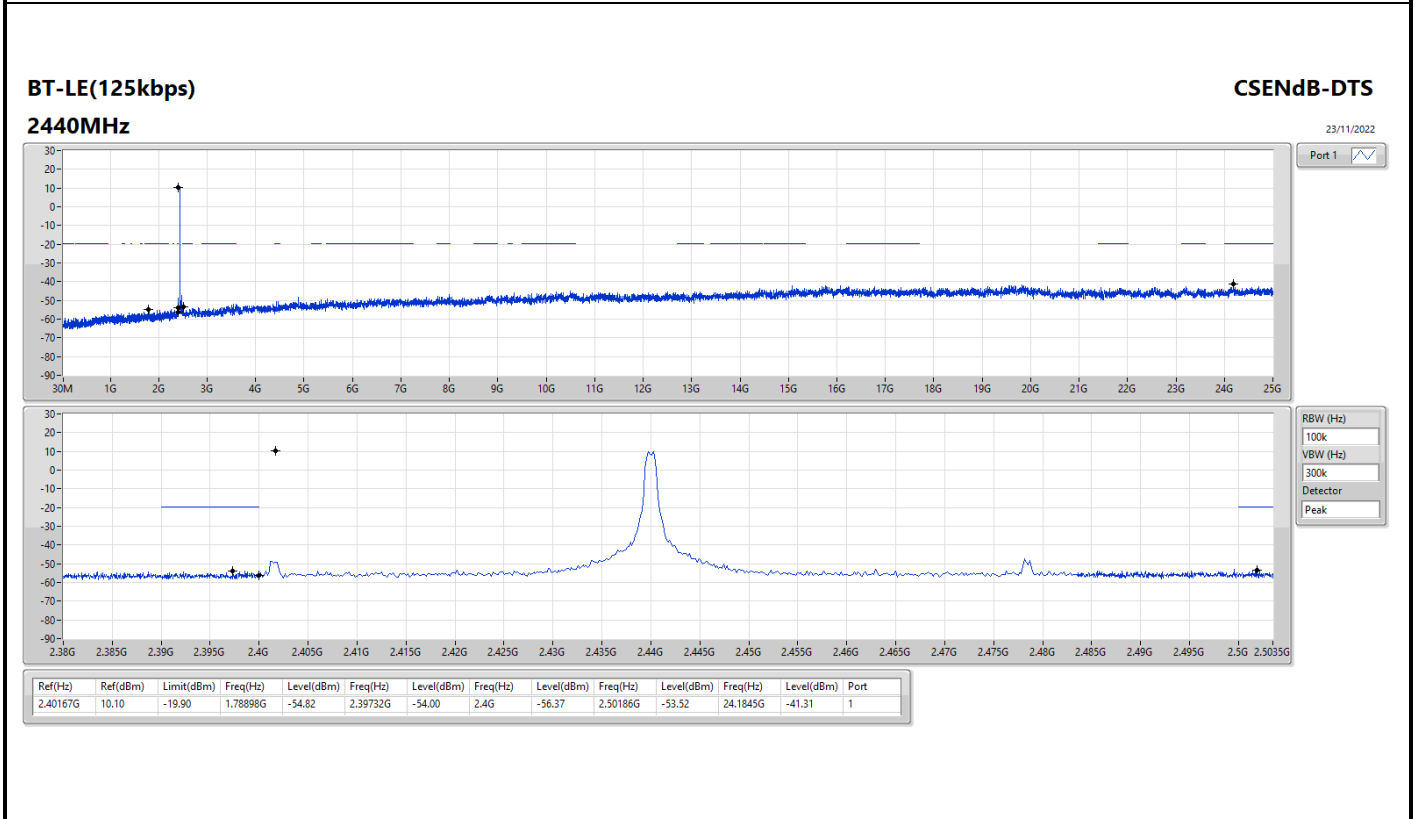
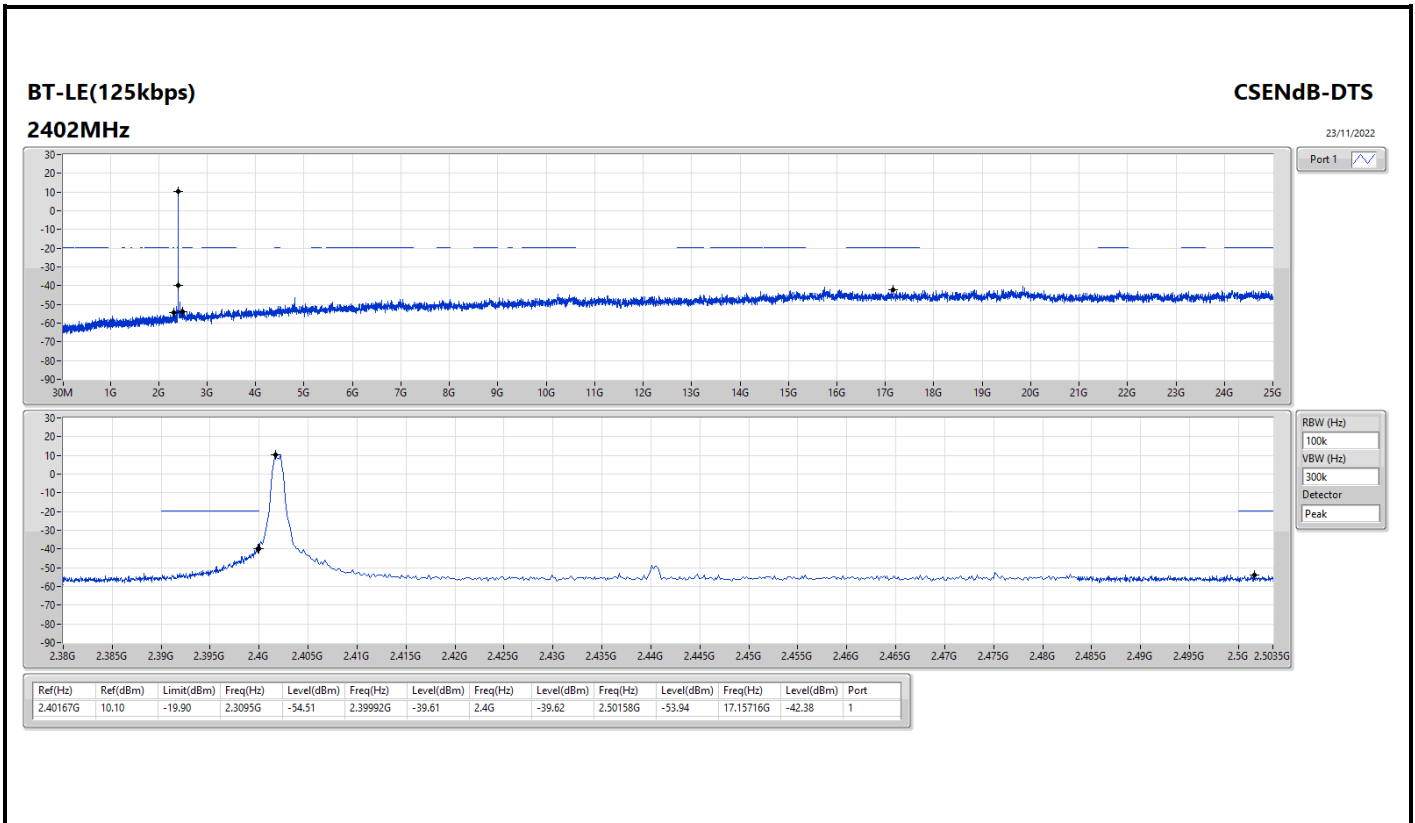
Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.44025G	18.30	-11.70	2.1215G	-55.01	2.39992G	-29.93	2.4G	-31.73	2.50286G	-54.55	24.68224G	-41.85	1
2440MHz	Pass	2.44025G	18.30	-11.70	2.14383G	-55.39	2.39356G	-54.57	2.4G	-56.21	2.50038G	-54.54	24.70755G	-41.45	1
2480MHz	Pass	2.44025G	18.30	-11.70	1.99813G	-54.66	2.39376G	-53.89	2.4G	-56.84	2.5001G	-53.73	24.63443G	-41.41	1
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.43991G	18.73	-11.27	2.13443G	-55.75	2.4G	-13.56	2.4G	-14.17	2.50346G	-53.88	15.04811G	-42.06	1
2440MHz	Pass	2.43991G	18.73	-11.27	2.14735G	-55.56	2.3966G	-52.53	2.4G	-55.65	2.50218G	-54.35	21.86736G	-41.43	1
2480MHz	Pass	2.43991G	18.73	-11.27	2.30128G	-55.76	2.39744G	-53.70	2.4G	-55.70	2.50106G	-54.46	24.14232G	-41.69	1
BT-LE(125kbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40167G	10.10	-19.90	2.3095G	-54.51	2.39992G	-39.61	2.4G	-39.62	2.50158G	-53.94	17.15716G	-42.38	1
2440MHz	Pass	2.40167G	10.10	-19.90	1.78898G	-54.82	2.39732G	-54.00	2.4G	-56.37	2.50186G	-53.52	24.1845G	-41.31	1
2480MHz	Pass	2.40167G	10.10	-19.90	2.1967G	-55.11	2.3928G	-54.40	2.4G	-56.65	2.50206G	-53.94	24.15638G	-41.37	1
BT-LE(500kbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.43991G	18.37	-11.63	2.30363G	-54.74	2.39984G	-33.66	2.4G	-33.43	2.5013G	-54.37	16.20106G	-41.67	1
2440MHz	Pass	2.43991G	18.37	-11.63	2.14853G	-55.38	2.39588G	-53.80	2.4G	-55.68	2.50094G	-53.17	24.45727G	-42.27	1
2480MHz	Pass	2.43991G	18.37	-11.63	1.98168G	-54.86	2.39208G	-54.68	2.4G	-56.07	2.50282G	-53.33	24.87627G	-41.90	1

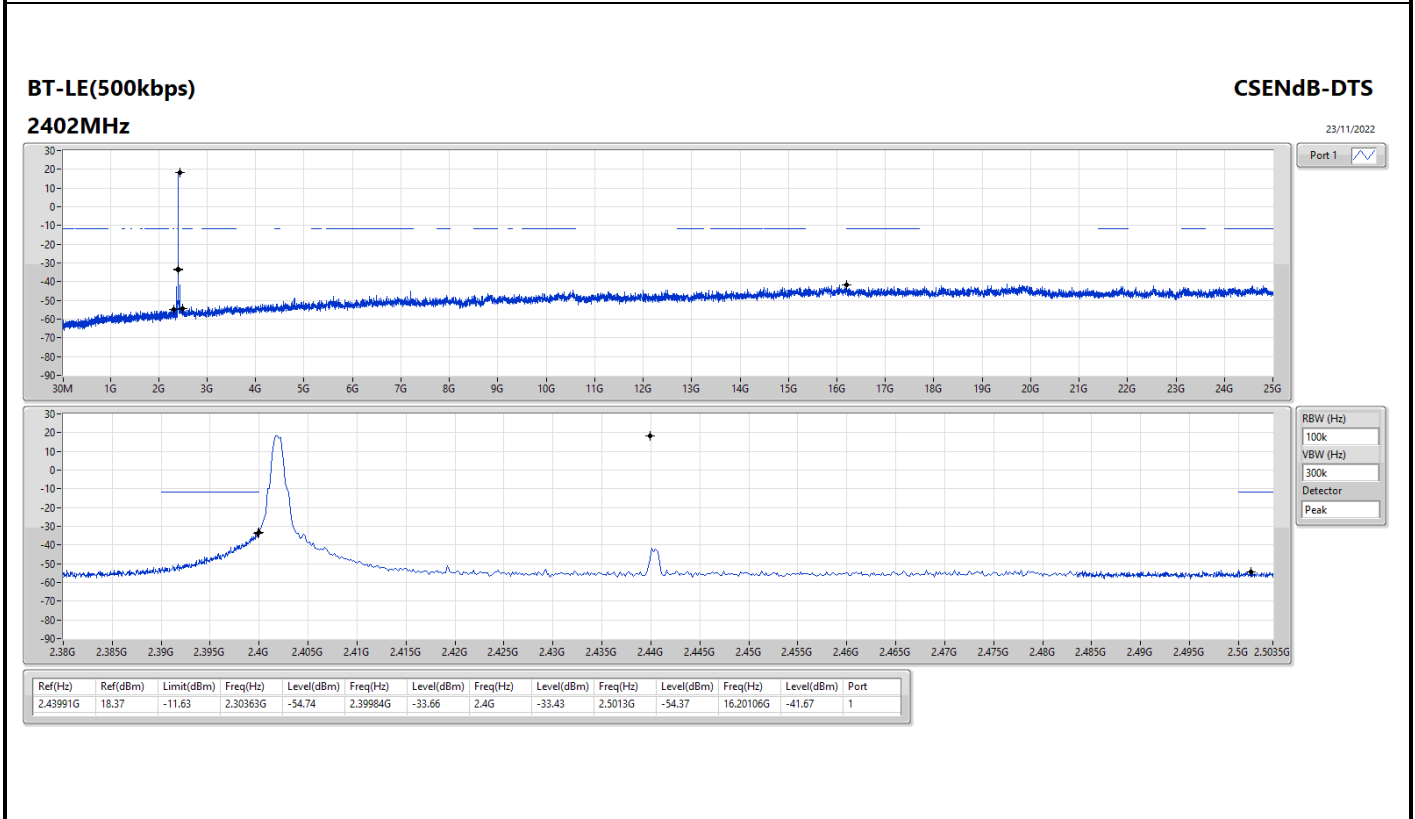
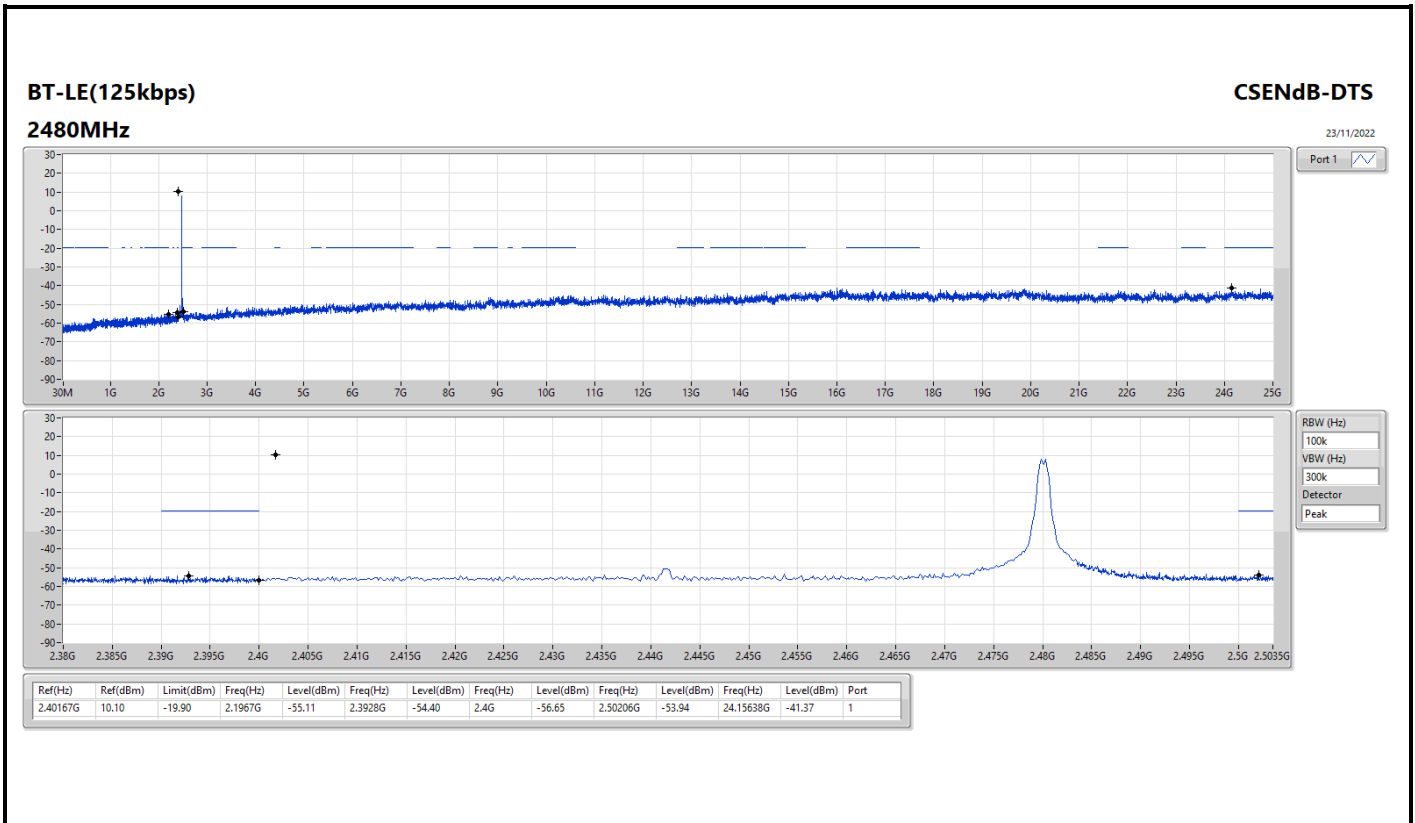


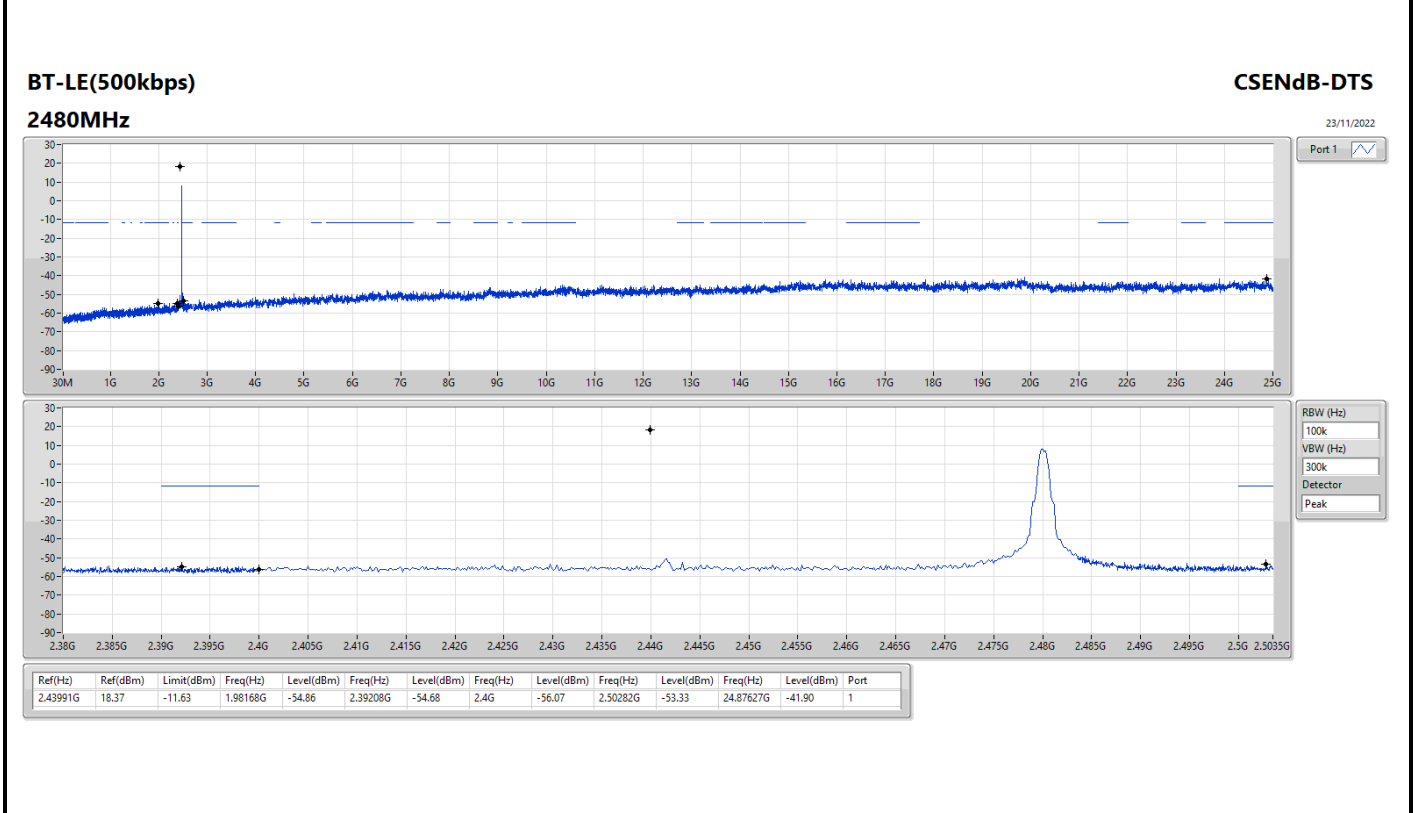
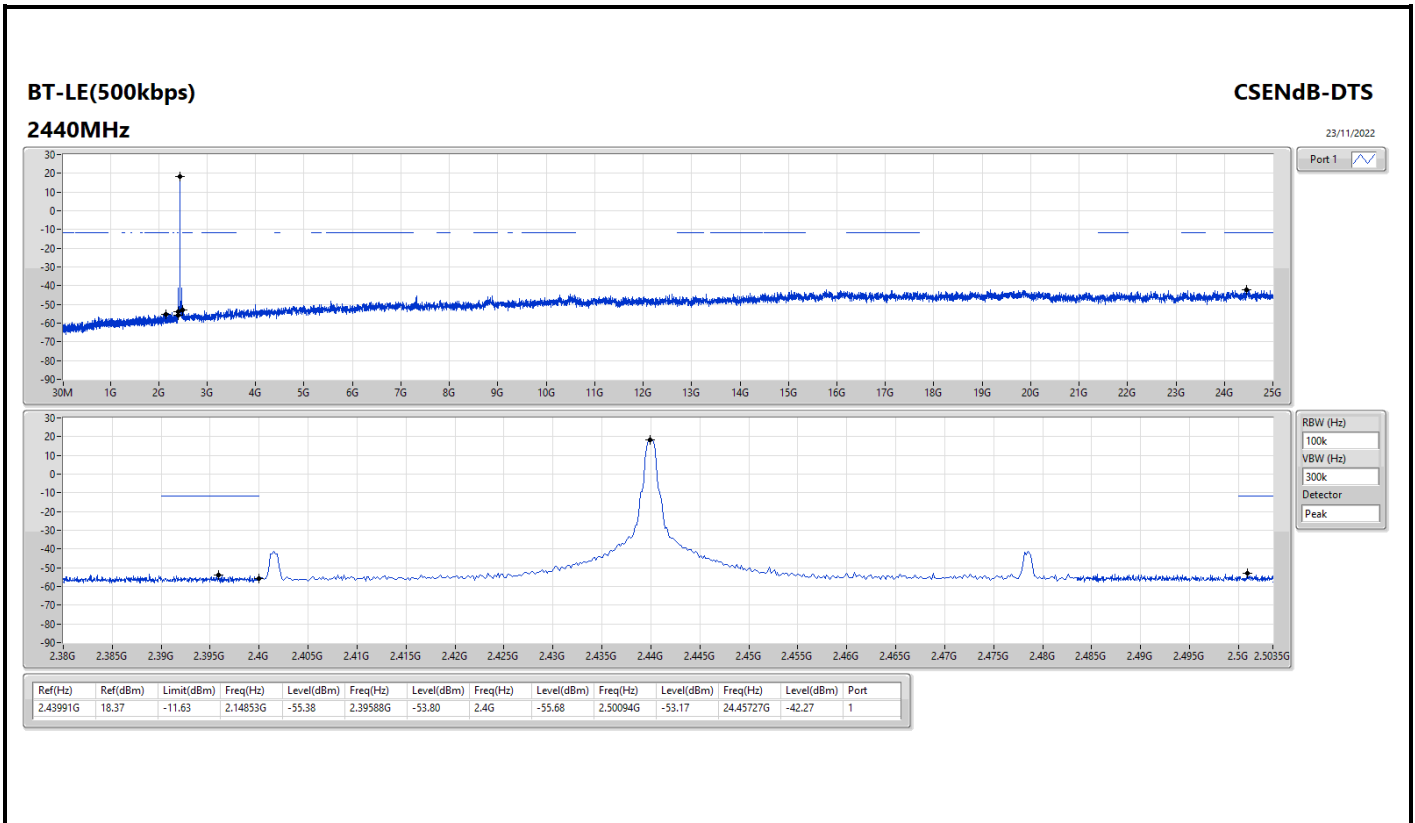














Summary

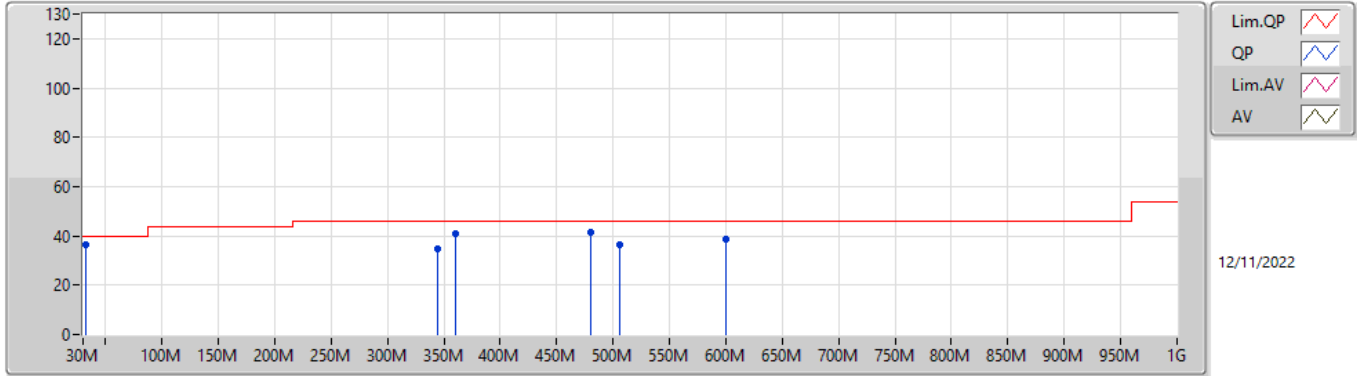
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
BT-LE(2Mbps)	Pass	PK	32.36M	36.39	40.00	-3.61	3	Vertical	280	1.00	-

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-	-
2440MHz	Pass	PK	344.28M	34.82	46.00	-11.18	3	Vertical	360	1.00	-
2440MHz	Pass	PK	359.8M	40.63	46.00	-5.37	3	Vertical	360	1.00	-
2440MHz	Pass	PK	480.08M	41.64	46.00	-4.36	3	Vertical	360	1.00	-
2440MHz	Pass	PK	505.3M	36.44	46.00	-9.56	3	Vertical	360	1.00	-
2440MHz	Pass	PK	600.36M	38.49	46.00	-7.51	3	Vertical	360	1.00	-
2440MHz	Pass	PK	32.36M	36.39	40.00	-3.61	3	Vertical	280	1.00	-
2440MHz	Pass	PK	303.54M	35.50	46.00	-10.50	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	326.82M	38.10	46.00	-7.90	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	363.68M	39.80	46.00	-6.20	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	480.08M	37.71	46.00	-8.29	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	600.36M	35.85	46.00	-10.15	3	Horizontal	0	1.00	-
2440MHz	Pass	QP	32.11M	34.55	40.00	-5.45	3	Horizontal	335	3.00	-

**BT-LE(2Mbps)**

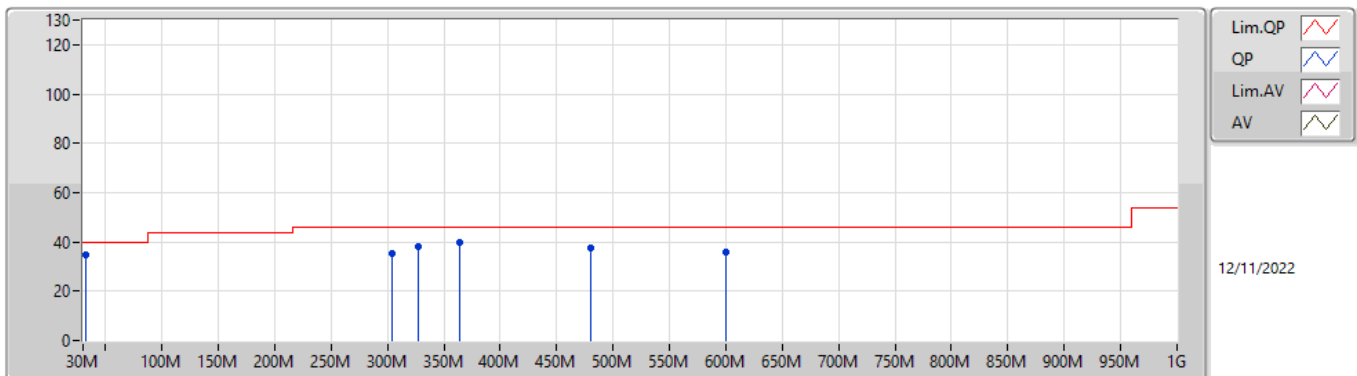
**2440MHz\_PoE**



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	344.28M	34.82	46.00	-11.18	-5.49	3	Vertical	360	1.00	-	40.31	19.28	2.69	27.46
PK	359.8M	40.63	46.00	-5.37	-4.94	3	Vertical	360	1.00	-	45.57	19.89	2.74	27.57
PK	480.08M	41.64	46.00	-4.36	-2.38	3	Vertical	360	1.00	-	44.02	22.71	3.22	28.31
PK	505.3M	36.44	46.00	-9.56	-2.38	3	Vertical	360	1.00	-	38.82	22.67	3.32	28.37
PK	600.36M	38.49	46.00	-7.51	-0.97	3	Vertical	360	1.00	-	39.46	23.88	3.59	28.44
PK	32.36M	36.39	40.00	-3.61	-3.92	3	Vertical	280	1.00	-	40.31	21.86	1.02	26.80

**BT-LE(2Mbps)**

**2440MHz\_PoE**



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	303.54M	35.50	46.00	-10.50	-6.18	3	Horizontal	0	1.00	-	41.68	18.51	2.52	27.21
PK	326.82M	38.10	46.00	-7.90	-5.96	3	Horizontal	0	1.00	-	44.06	18.78	2.62	27.36
PK	363.68M	39.80	46.00	-6.20	-4.88	3	Horizontal	0	1.00	-	44.68	19.95	2.76	27.59
PK	480.08M	37.71	46.00	-8.29	-2.38	3	Horizontal	0	1.00	-	40.09	22.71	3.22	28.31
PK	600.36M	35.85	46.00	-10.15	-0.97	3	Horizontal	0	1.00	-	36.82	23.88	3.59	28.44
QP	32.11M	34.55	40.00	-5.45	-3.82	3	Horizontal	335	3.00	-	38.37	21.98	1.02	26.82



Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
BT-LE(1Mbps)	Pass	AV	2.4835G	52.87	54.00	-1.13	3	Horizontal	325	2.75	-
BT-LE(2Mbps)	Pass	AV	2.4835G	52.88	54.00	-1.12	3	Horizontal	324	2.73	-
BT-LE(125kbps)	Pass	AV	2.4835G	52.84	54.00	-1.16	3	Horizontal	326	3.00	-
BT-LE(500kbps)	Pass	AV	2.4835G	52.77	54.00	-1.23	3	Horizontal	326	2.73	-



Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3892G	48.46	54.00	-5.54	3	Vertical	5	1.40	-
2402MHz	Pass	AV	2.44G	105.88	Inf	-Inf	3	Vertical	5	1.40	-
2402MHz	Pass	AV	2.4944G	48.90	54.00	-5.10	3	Vertical	5	1.40	-
2402MHz	Pass	PK	2.3552G	60.17	74.00	-13.83	3	Vertical	5	1.40	-
2402MHz	Pass	PK	2.4404G	107.98	Inf	-Inf	3	Vertical	5	1.40	-
2402MHz	Pass	PK	2.4924G	60.34	74.00	-13.66	3	Vertical	5	1.40	-
2402MHz	Pass	AV	2.3844G	48.40	54.00	-5.60	3	Horizontal	18	2.10	-
2402MHz	Pass	AV	2.44G	111.59	Inf	-Inf	3	Horizontal	18	2.10	-
2402MHz	Pass	AV	2.5G	49.02	54.00	-4.98	3	Horizontal	18	2.10	-
2402MHz	Pass	PK	2.3784G	59.85	74.00	-14.15	3	Horizontal	18	2.10	-
2402MHz	Pass	PK	2.4404G	113.67	Inf	-Inf	3	Horizontal	18	2.10	-
2402MHz	Pass	PK	2.484G	59.98	74.00	-14.02	3	Horizontal	18	2.10	-
2402MHz	Pass	AV	4.88016G	45.03	54.00	-8.97	3	Vertical	360	1.05	-
2402MHz	Pass	AV	7.32068G	43.62	54.00	-10.38	3	Vertical	355	1.03	-
2402MHz	Pass	PK	4.88058G	53.92	74.00	-20.08	3	Vertical	360	1.05	-
2402MHz	Pass	PK	7.32094G	55.48	74.00	-18.52	3	Vertical	355	1.03	-
2402MHz	Pass	AV	4.87998G	48.23	54.00	-5.77	3	Horizontal	9	1.81	-
2402MHz	Pass	AV	7.32058G	46.42	54.00	-7.58	3	Horizontal	318	1.70	-
2402MHz	Pass	PK	4.88038G	56.38	74.00	-17.62	3	Horizontal	9	1.81	-
2402MHz	Pass	PK	7.31924G	57.65	74.00	-16.35	3	Horizontal	318	1.70	-
2440MHz	Pass	AV	2.3868G	48.78	54.00	-5.22	3	Vertical	320	2.20	-
2440MHz	Pass	AV	2.44G	106.54	Inf	-Inf	3	Vertical	320	2.20	-
2440MHz	Pass	AV	2.4964G	49.28	54.00	-4.72	3	Vertical	320	2.20	-
2440MHz	Pass	PK	2.3436G	60.08	74.00	-13.92	3	Vertical	320	2.20	-
2440MHz	Pass	PK	2.4404G	107.97	Inf	-Inf	3	Vertical	320	2.20	-
2440MHz	Pass	PK	2.4964G	59.83	74.00	-14.17	3	Vertical	320	2.20	-
2440MHz	Pass	AV	2.3796G	48.70	54.00	-5.30	3	Horizontal	15	2.10	-
2440MHz	Pass	AV	2.44G	110.43	Inf	-Inf	3	Horizontal	15	2.10	-
2440MHz	Pass	AV	2.4976G	49.34	54.00	-4.66	3	Horizontal	15	2.10	-
2440MHz	Pass	PK	2.3472G	59.43	74.00	-14.57	3	Horizontal	15	2.10	-
2440MHz	Pass	PK	2.4396G	111.83	Inf	-Inf	3	Horizontal	15	2.10	-
2440MHz	Pass	PK	2.4932G	59.88	74.00	-14.12	3	Horizontal	15	2.10	-
2440MHz	Pass	AV	4.88002G	45.28	54.00	-8.72	3	Vertical	355	1.02	-
2440MHz	Pass	AV	7.32053G	43.75	54.00	-10.25	3	Vertical	360	1.16	-
2440MHz	Pass	PK	4.88053G	52.69	74.00	-21.31	3	Vertical	355	1.02	-
2440MHz	Pass	PK	7.32086G	55.41	74.00	-18.59	3	Vertical	360	1.16	-
2440MHz	Pass	AV	4.87998G	48.97	54.00	-5.03	3	Horizontal	6	1.50	-
2440MHz	Pass	AV	7.32042G	45.61	54.00	-8.39	3	Horizontal	49	1.50	-
2440MHz	Pass	PK	4.87986G	55.34	74.00	-18.66	3	Horizontal	6	1.50	-
2440MHz	Pass	PK	7.3207G	56.58	74.00	-17.42	3	Horizontal	49	1.50	-
2480MHz	Pass	AV	2.48G	98.63	Inf	-Inf	3	Vertical	321	2.03	-
2480MHz	Pass	AV	2.4835G	51.83	54.00	-2.17	3	Vertical	321	2.03	-
2480MHz	Pass	PK	2.4798G	100.00	Inf	-Inf	3	Vertical	321	2.03	-
2480MHz	Pass	PK	2.4835G	60.55	74.00	-13.45	3	Vertical	321	2.03	-
2480MHz	Pass	AV	2.48G	100.65	Inf	-Inf	3	Horizontal	325	2.75	-
2480MHz	Pass	AV	2.4835G	52.87	54.00	-1.13	3	Horizontal	325	2.75	-
2480MHz	Pass	PK	2.4798G	102.08	Inf	-Inf	3	Horizontal	325	2.75	-
2480MHz	Pass	PK	2.4835G	61.44	74.00	-12.56	3	Horizontal	325	2.75	-
2480MHz	Pass	AV	4.95988G	37.94	54.00	-16.06	3	Vertical	341	1.37	-
2480MHz	Pass	AV	7.43944G	39.01	54.00	-14.99	3	Vertical	351	1.00	-
2480MHz	Pass	PK	4.9596G	48.54	74.00	-25.46	3	Vertical	341	1.37	-
2480MHz	Pass	PK	7.44058G	51.72	74.00	-22.28	3	Vertical	351	1.00	-
2480MHz	Pass	AV	4.95994G	40.50	54.00	-13.50	3	Horizontal	32	1.75	-
2480MHz	Pass	AV	7.43946G	40.04	54.00	-13.96	3	Horizontal	0	1.00	-
2480MHz	Pass	PK	4.96056G	49.72	74.00	-24.28	3	Horizontal	32	1.75	-
2480MHz	Pass	PK	7.4404G	52.39	74.00	-21.61	3	Horizontal	0	1.00	-
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3636G	49.82	54.00	-4.18	3	Vertical	14	2.06	-
2402MHz	Pass	AV	2.402G	105.20	Inf	-Inf	3	Vertical	14	2.06	-
2402MHz	Pass	PK	2.377G	59.74	74.00	-14.26	3	Vertical	14	2.06	-



Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2402MHz	Pass	PK	2.4016G	108.78	Inf	-Inf	3	Vertical	14	2.06	-
2402MHz	Pass	AV	2.3634G	51.34	54.00	-2.66	3	Horizontal	13	2.15	-
2402MHz	Pass	AV	2.402G	111.80	Inf	-Inf	3	Horizontal	13	2.15	-
2402MHz	Pass	PK	2.388G	60.36	74.00	-13.64	3	Horizontal	13	2.15	-
2402MHz	Pass	PK	2.4016G	115.43	Inf	-Inf	3	Horizontal	13	2.15	-
2402MHz	Pass	AV	4.80494G	39.07	54.00	-14.93	3	Vertical	353	1.33	-
2402MHz	Pass	PK	4.80502G	49.89	74.00	-24.11	3	Vertical	353	1.33	-
2402MHz	Pass	AV	4.80502G	41.90	54.00	-12.10	3	Horizontal	36	1.40	-
2402MHz	Pass	PK	4.80498G	52.37	74.00	-21.63	3	Horizontal	36	1.40	-
2440MHz	Pass	AV	2.3824G	48.73	54.00	-5.27	3	Vertical	4	1.15	-
2440MHz	Pass	AV	2.4404G	102.25	Inf	-Inf	3	Vertical	4	1.15	-
2440MHz	Pass	AV	2.5G	49.21	54.00	-4.79	3	Vertical	4	1.15	-
2440MHz	Pass	PK	2.3804G	59.90	74.00	-14.10	3	Vertical	4	1.15	-
2440MHz	Pass	PK	2.44G	107.92	Inf	-Inf	3	Vertical	4	1.15	-
2440MHz	Pass	PK	2.4964G	60.32	74.00	-13.68	3	Vertical	4	1.15	-
2440MHz	Pass	AV	2.39G	48.86	54.00	-5.14	3	Horizontal	319	2.57	-
2440MHz	Pass	AV	2.44G	109.82	Inf	-Inf	3	Horizontal	319	2.57	-
2440MHz	Pass	AV	2.4992G	49.30	54.00	-4.70	3	Horizontal	319	2.57	-
2440MHz	Pass	PK	2.3524G	59.44	74.00	-14.56	3	Horizontal	319	2.57	-
2440MHz	Pass	PK	2.4396G	113.18	Inf	-Inf	3	Horizontal	319	2.57	-
2440MHz	Pass	PK	2.492G	59.78	74.00	-14.22	3	Horizontal	319	2.57	-
2440MHz	Pass	AV	4.88096G	42.49	54.00	-11.51	3	Vertical	357	1.05	-
2440MHz	Pass	AV	7.32114G	43.10	54.00	-10.90	3	Vertical	355	1.17	-
2440MHz	Pass	PK	4.88006G	53.03	74.00	-20.97	3	Vertical	357	1.05	-
2440MHz	Pass	PK	7.31856G	54.45	74.00	-19.55	3	Vertical	355	1.17	-
2440MHz	Pass	AV	4.8809G	45.11	54.00	-8.89	3	Horizontal	8	1.70	-
2440MHz	Pass	AV	7.32116G	44.96	54.00	-9.04	3	Horizontal	49	1.50	-
2440MHz	Pass	PK	4.87995G	55.59	74.00	-18.41	3	Horizontal	8	1.70	-
2440MHz	Pass	PK	7.31989G	56.08	74.00	-17.92	3	Horizontal	49	1.50	-
2480MHz	Pass	AV	2.48G	93.84	Inf	-Inf	3	Vertical	324	2.03	-
2480MHz	Pass	AV	2.4835G	51.68	54.00	-2.32	3	Vertical	324	2.03	-
2480MHz	Pass	PK	2.48G	97.22	Inf	-Inf	3	Vertical	324	2.03	-
2480MHz	Pass	PK	2.4836G	61.49	74.00	-12.51	3	Vertical	324	2.03	-
2480MHz	Pass	AV	2.48G	96.70	Inf	-Inf	3	Horizontal	324	2.73	-
2480MHz	Pass	AV	2.4835G	52.88	54.00	-1.12	3	Horizontal	324	2.73	-
2480MHz	Pass	PK	2.4796G	100.01	Inf	-Inf	3	Horizontal	324	2.73	-
2480MHz	Pass	PK	2.4835G	61.49	74.00	-12.51	3	Horizontal	324	2.73	-
2480MHz	Pass	AV	4.959G	36.08	54.00	-17.92	3	Vertical	322	1.07	-
2480MHz	Pass	AV	7.43848G	37.27	54.00	-16.73	3	Vertical	360	1.33	-
2480MHz	Pass	PK	4.9609G	47.82	74.00	-26.18	3	Vertical	322	1.07	-
2480MHz	Pass	PK	7.44122G	51.69	74.00	-22.31	3	Vertical	360	1.33	-
2480MHz	Pass	AV	4.9591G	37.79	54.00	-16.21	3	Horizontal	34	2.24	-
2480MHz	Pass	AV	7.43868G	37.75	54.00	-16.25	3	Horizontal	0	1.00	-
2480MHz	Pass	PK	4.95994G	49.92	74.00	-24.08	3	Horizontal	34	2.24	-
2480MHz	Pass	PK	7.44114G	51.13	74.00	-22.87	3	Horizontal	0	1.00	-
BT-LE(125kbps)	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3634G	49.81	54.00	-4.19	3	Vertical	13	1.78	-
2402MHz	Pass	AV	2.402G	107.86	Inf	-Inf	3	Vertical	13	1.78	-
2402MHz	Pass	PK	2.3558G	60.67	74.00	-13.33	3	Vertical	13	1.78	-
2402MHz	Pass	PK	2.4018G	109.96	Inf	-Inf	3	Vertical	13	1.78	-
2402MHz	Pass	AV	2.3636G	51.85	54.00	-2.15	3	Horizontal	15	2.14	-
2402MHz	Pass	AV	2.402G	113.56	Inf	-Inf	3	Horizontal	15	2.14	-
2402MHz	Pass	PK	2.3634G	61.31	74.00	-12.69	3	Horizontal	15	2.14	-
2402MHz	Pass	PK	2.4018G	115.73	Inf	-Inf	3	Horizontal	15	2.14	-
2402MHz	Pass	AV	4.80416G	42.62	54.00	-11.38	3	Vertical	352	1.33	-
2402MHz	Pass	PK	4.80462G	51.96	74.00	-22.04	3	Vertical	352	1.33	-
2402MHz	Pass	AV	4.80398G	46.37	54.00	-7.63	3	Horizontal	8	1.89	-
2402MHz	Pass	PK	4.80438G	54.66	74.00	-19.34	3	Horizontal	8	1.89	-
2440MHz	Pass	AV	2.3892G	48.46	54.00	-5.54	3	Vertical	5	1.40	-
2440MHz	Pass	AV	2.44G	105.88	Inf	-Inf	3	Vertical	5	1.40	-
2440MHz	Pass	AV	2.4944G	48.90	54.00	-5.10	3	Vertical	5	1.40	-
2440MHz	Pass	PK	2.3552G	60.17	74.00	-13.83	3	Vertical	5	1.40	-



Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2440MHz	Pass	PK	2.4404G	107.98	Inf	-Inf	3	Vertical	5	1.40	-
2440MHz	Pass	PK	2.4924G	60.34	74.00	-13.66	3	Vertical	5	1.40	-
2440MHz	Pass	AV	2.3844G	48.40	54.00	-5.60	3	Horizontal	18	2.10	-
2440MHz	Pass	AV	2.44G	111.59	Inf	-Inf	3	Horizontal	18	2.10	-
2440MHz	Pass	AV	2.5G	49.02	54.00	-4.98	3	Horizontal	18	2.10	-
2440MHz	Pass	PK	2.3784G	59.85	74.00	-14.15	3	Horizontal	18	2.10	-
2440MHz	Pass	PK	2.4404G	113.67	Inf	-Inf	3	Horizontal	18	2.10	-
2440MHz	Pass	PK	2.484G	59.98	74.00	-14.02	3	Horizontal	18	2.10	-
2440MHz	Pass	AV	4.88016G	45.03	54.00	-8.97	3	Vertical	360	1.05	-
2440MHz	Pass	AV	7.32068G	43.62	54.00	-10.38	3	Vertical	355	1.03	-
2440MHz	Pass	PK	4.88058G	53.92	74.00	-20.08	3	Vertical	360	1.05	-
2440MHz	Pass	PK	7.32094G	55.48	74.00	-18.52	3	Vertical	355	1.03	-
2440MHz	Pass	AV	4.87998G	48.23	54.00	-5.77	3	Horizontal	9	1.81	-
2440MHz	Pass	AV	7.32058G	46.42	54.00	-7.58	3	Horizontal	318	1.70	-
2440MHz	Pass	PK	4.88038G	56.38	74.00	-17.62	3	Horizontal	9	1.81	-
2440MHz	Pass	PK	7.31924G	57.65	74.00	-16.35	3	Horizontal	318	1.70	-
2480MHz	Pass	AV	2.48G	99.13	Inf	-Inf	3	Vertical	323	2.04	-
2480MHz	Pass	AV	2.4835G	52.11	54.00	-1.89	3	Vertical	323	2.04	-
2480MHz	Pass	PK	2.4802G	101.31	Inf	-Inf	3	Vertical	323	2.04	-
2480MHz	Pass	PK	2.4835G	61.38	74.00	-12.62	3	Vertical	323	2.04	-
2480MHz	Pass	AV	2.48G	100.50	Inf	-Inf	3	Horizontal	326	3.00	-
2480MHz	Pass	AV	2.4835G	52.84	54.00	-1.16	3	Horizontal	326	3.00	-
2480MHz	Pass	PK	2.4798G	102.57	Inf	-Inf	3	Horizontal	326	3.00	-
2480MHz	Pass	PK	2.4835G	61.91	74.00	-12.09	3	Horizontal	326	3.00	-
2480MHz	Pass	AV	4.9603G	38.80	54.00	-15.20	3	Vertical	343	1.37	-
2480MHz	Pass	AV	7.43918G	38.28	54.00	-15.72	3	Vertical	360	1.34	-
2480MHz	Pass	PK	4.96058G	49.68	74.00	-24.32	3	Vertical	343	1.37	-
2480MHz	Pass	PK	7.441G	50.59	74.00	-23.41	3	Vertical	360	1.34	-
2480MHz	Pass	AV	4.96014G	43.70	54.00	-10.30	3	Horizontal	297	1.68	-
2480MHz	Pass	AV	7.4406G	39.51	54.00	-14.49	3	Horizontal	-0	1.23	-
2480MHz	Pass	PK	4.95944G	52.58	74.00	-21.42	3	Horizontal	297	1.68	-
2480MHz	Pass	PK	7.44088G	51.79	74.00	-22.21	3	Horizontal	-0	1.23	-
BT-LE(500kbps)	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3636G	49.97	54.00	-4.03	3	Vertical	13	1.77	-
2402MHz	Pass	AV	2.402G	108.02	Inf	-Inf	3	Vertical	13	1.77	-
2402MHz	Pass	PK	2.3634G	60.32	74.00	-13.68	3	Vertical	13	1.77	-
2402MHz	Pass	PK	2.402G	110.09	Inf	-Inf	3	Vertical	13	1.77	-
2402MHz	Pass	AV	2.3636G	51.67	54.00	-2.33	3	Horizontal	8	1.50	-
2402MHz	Pass	AV	2.402G	112.48	Inf	-Inf	3	Horizontal	8	1.50	-
2402MHz	Pass	PK	2.3632G	60.63	74.00	-13.37	3	Horizontal	8	1.50	-
2402MHz	Pass	PK	2.4018G	114.35	Inf	-Inf	3	Horizontal	8	1.50	-
2402MHz	Pass	AV	4.80392G	43.72	54.00	-10.28	3	Vertical	354	1.33	-
2402MHz	Pass	PK	4.80446G	51.84	74.00	-22.16	3	Vertical	354	1.33	-
2402MHz	Pass	AV	4.80392G	47.68	54.00	-6.32	3	Horizontal	6	1.89	-
2402MHz	Pass	PK	4.80448G	54.75	74.00	-19.25	3	Horizontal	6	1.89	-
2440MHz	Pass	AV	2.39G	48.51	54.00	-5.49	3	Vertical	5	1.39	-
2440MHz	Pass	AV	2.44G	106.49	Inf	-Inf	3	Vertical	5	1.39	-
2440MHz	Pass	AV	2.4956G	49.02	54.00	-4.98	3	Vertical	5	1.39	-
2440MHz	Pass	PK	2.3788G	60.23	74.00	-13.77	3	Vertical	5	1.39	-
2440MHz	Pass	PK	2.4404G	108.36	Inf	-Inf	3	Vertical	5	1.39	-
2440MHz	Pass	PK	2.4948G	59.68	74.00	-14.32	3	Vertical	5	1.39	-
2440MHz	Pass	AV	2.3872G	48.57	54.00	-5.43	3	Horizontal	13	2.09	-
2440MHz	Pass	AV	2.44G	112.10	Inf	-Inf	3	Horizontal	13	2.09	-
2440MHz	Pass	AV	2.5G	49.03	54.00	-4.97	3	Horizontal	13	2.09	-
2440MHz	Pass	PK	2.3844G	60.21	74.00	-13.79	3	Horizontal	13	2.09	-
2440MHz	Pass	PK	2.4396G	113.88	Inf	-Inf	3	Horizontal	13	2.09	-
2440MHz	Pass	PK	2.4835G	60.46	74.00	-13.54	3	Horizontal	13	2.09	-
2440MHz	Pass	AV	4.88004G	45.74	54.00	-8.26	3	Vertical	360	1.18	-
2440MHz	Pass	AV	7.32052G	43.57	54.00	-10.43	3	Vertical	360	1.18	-
2440MHz	Pass	PK	4.8794G	53.63	74.00	-20.37	3	Vertical	360	1.18	-
2440MHz	Pass	PK	7.32082G	54.91	74.00	-19.09	3	Vertical	360	1.18	-
2440MHz	Pass	AV	4.88G	49.79	54.00	-4.21	3	Horizontal	10	1.66	-

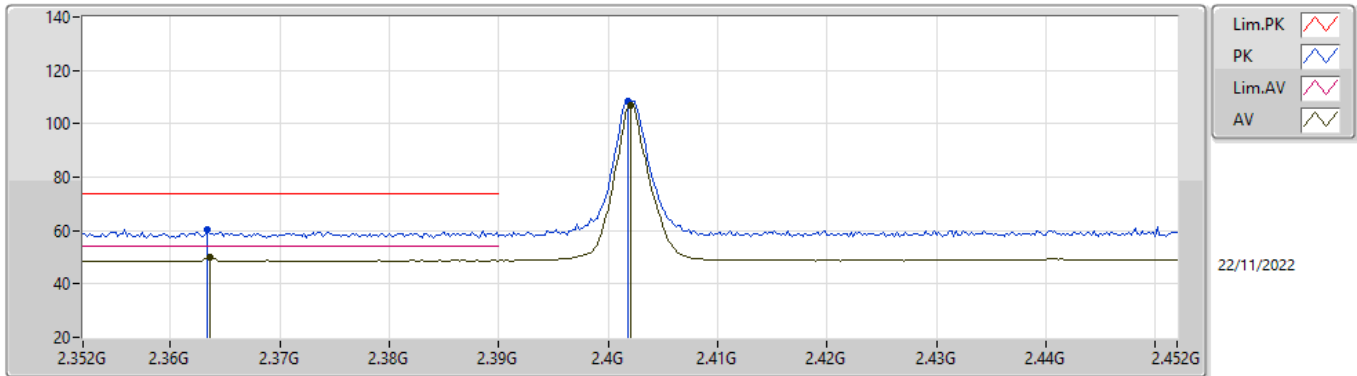




Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2440MHz	Pass	AV	7.32058G	46.03	54.00	-7.97	3	Horizontal	48	1.48	-
2440MHz	Pass	PK	4.8794G	56.71	74.00	-17.29	3	Horizontal	10	1.66	-
2440MHz	Pass	PK	7.32076G	56.57	74.00	-17.43	3	Horizontal	48	1.48	-
2480MHz	Pass	AV	2.48G	97.47	Inf	-Inf	3	Vertical	322	2.39	-
2480MHz	Pass	AV	2.4835G	51.17	54.00	-2.83	3	Vertical	322	2.39	-
2480MHz	Pass	PK	2.4802G	99.25	Inf	-Inf	3	Vertical	322	2.39	-
2480MHz	Pass	PK	2.4856G	60.44	74.00	-13.56	3	Vertical	322	2.39	-
2480MHz	Pass	AV	2.48G	100.69	Inf	-Inf	3	Horizontal	326	2.73	-
2480MHz	Pass	AV	2.4835G	52.77	54.00	-1.23	3	Horizontal	326	2.73	-
2480MHz	Pass	PK	2.4798G	102.50	Inf	-Inf	3	Horizontal	326	2.73	-
2480MHz	Pass	PK	2.496G	61.70	74.00	-12.30	3	Horizontal	326	2.73	-
2480MHz	Pass	AV	4.95994G	37.84	54.00	-16.16	3	Vertical	24	1.30	-
2480MHz	Pass	AV	7.4407G	37.83	54.00	-16.17	3	Vertical	356	1.12	-
2480MHz	Pass	PK	4.95936G	48.98	74.00	-25.02	3	Vertical	24	1.30	-
2480MHz	Pass	PK	7.43904G	50.66	74.00	-23.34	3	Vertical	356	1.12	-
2480MHz	Pass	AV	4.96004G	40.55	54.00	-13.45	3	Horizontal	296	1.68	-
2480MHz	Pass	AV	7.44066G	38.66	54.00	-15.34	3	Horizontal	48	1.32	-
2480MHz	Pass	PK	4.96056G	50.42	74.00	-23.58	3	Horizontal	296	1.68	-
2480MHz	Pass	PK	7.43978G	51.21	74.00	-22.79	3	Horizontal	48	1.32	-

**BT-LE(1Mbps)**

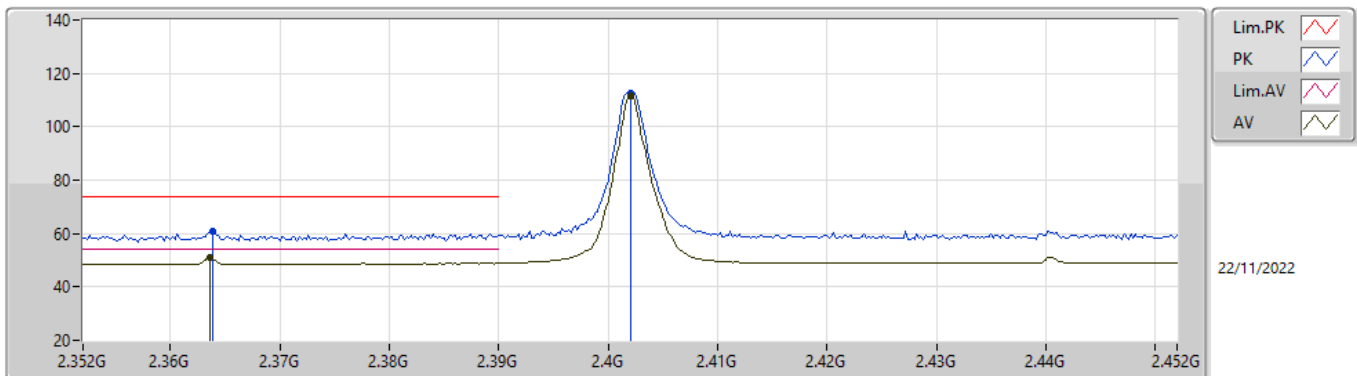
**2402MHz\_TX**



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3636G	49.94	54.00	-4.06	35.57	3	Vertical	12	1.09	-	14.37	27.31	8.26	-
AV	2.402G	107.10	Inf	-Inf	35.89	3	Vertical	12	1.09	-	71.21	27.60	8.29	-
PK	2.3634G	60.16	74.00	-13.84	35.57	3	Vertical	12	1.09	-	24.59	27.31	8.26	-
PK	2.4018G	108.50	Inf	-Inf	35.89	3	Vertical	12	1.09	-	72.61	27.60	8.29	-

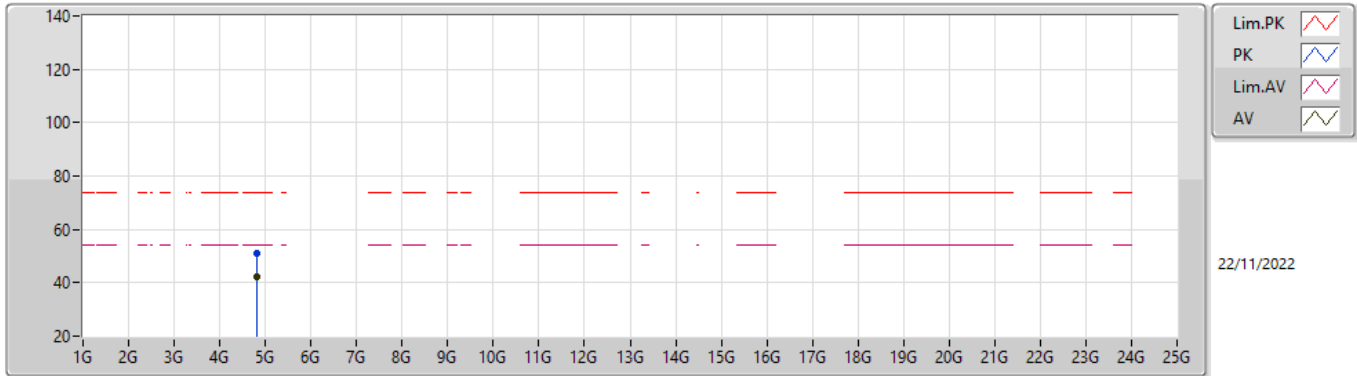
**BT-LE(1Mbps)**

**2402MHz\_TX**



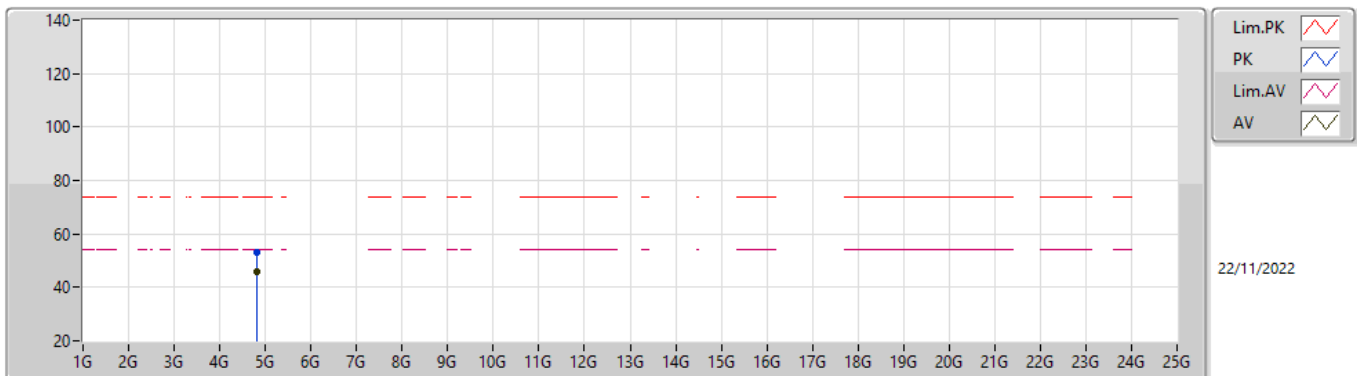
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3636G	50.97	54.00	-3.03	35.57	3	Horizontal	8	1.32	-	15.40	27.31	8.26	-
AV	2.402G	111.44	Inf	-Inf	35.89	3	Horizontal	8	1.32	-	75.55	27.60	8.29	-
PK	2.3638G	60.92	74.00	-13.08	35.57	3	Horizontal	8	1.32	-	25.35	27.31	8.26	-
PK	2.402G	112.83	Inf	-Inf	35.89	3	Horizontal	8	1.32	-	76.94	27.60	8.29	-

**BT-LE(1Mbps)**  
**2402MHz\_TX**



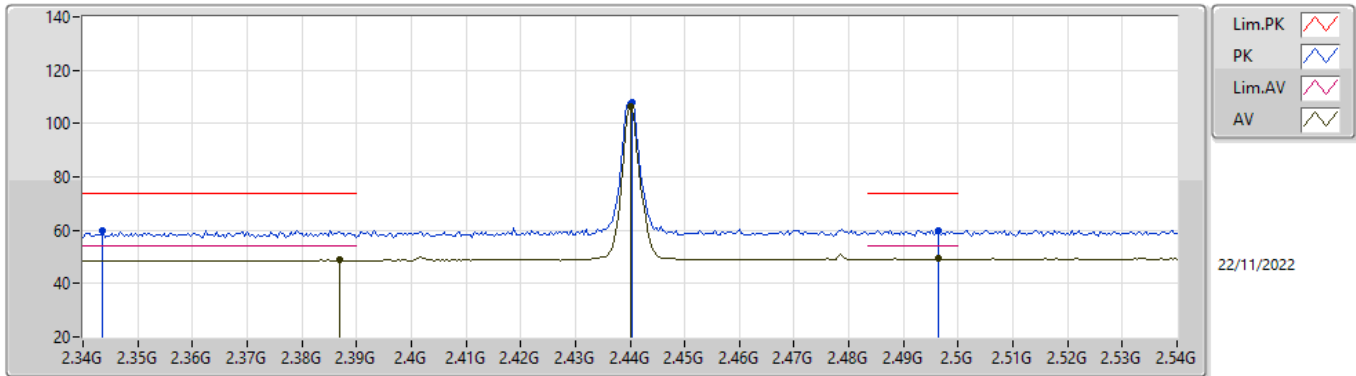
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.80396G	42.33	54.00	-11.67	11.86	3	Vertical	354	1.34	-	30.47	32.22	9.67	30.03
PK	4.80435G	51.02	74.00	-22.98	11.87	3	Vertical	354	1.34	-	39.15	32.23	9.67	30.03

**BT-LE(1Mbps)**  
**2402MHz\_TX**



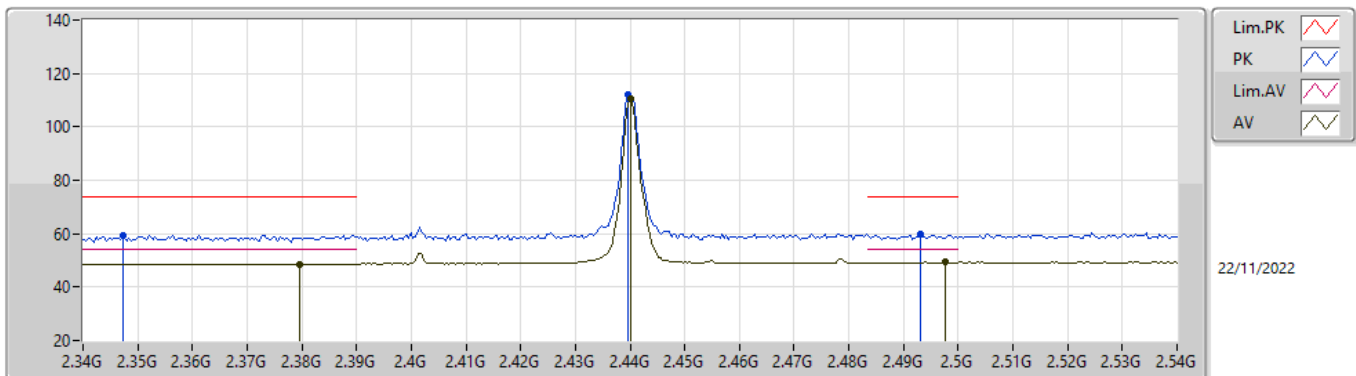
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.80403G	45.95	54.00	-8.05	11.86	3	Horizontal	6	1.88	-	34.09	32.22	9.67	30.03
PK	4.80441G	53.19	74.00	-20.81	11.87	3	Horizontal	6	1.88	-	41.32	32.23	9.67	30.03

**BT-LE(1Mbps)**  
**2440MHz\_TX**



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3868G	48.78	54.00	-5.22	35.77	3	Vertical	320	2.20	-	13.01	27.49	8.28	-
AV	2.44G	106.54	Inf	-Inf	36.00	3	Vertical	320	2.20	-	70.54	27.68	8.32	-
AV	2.4964G	49.28	54.00	-4.72	36.24	3	Vertical	320	2.20	-	13.04	27.89	8.35	-
PK	2.3436G	60.08	74.00	-13.92	35.45	3	Vertical	320	2.20	-	24.63	27.20	8.25	-
PK	2.4404G	107.97	Inf	-Inf	36.00	3	Vertical	320	2.20	-	71.97	27.68	8.32	-
PK	2.4964G	59.83	74.00	-14.17	36.24	3	Vertical	320	2.20	-	23.59	27.89	8.35	-

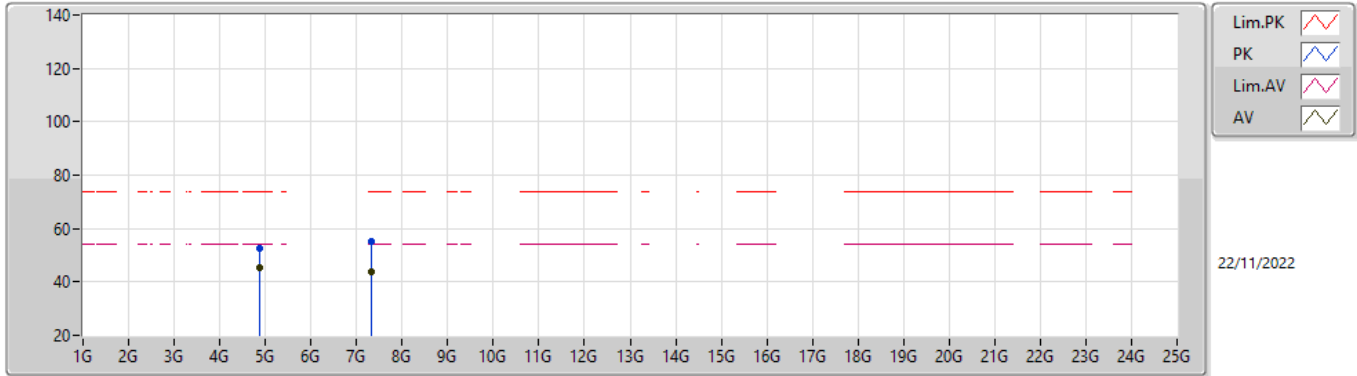
**BT-LE(1Mbps)**  
**2440MHz\_TX**



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3796G	48.70	54.00	-5.30	35.71	3	Horizontal	15	2.10	-	12.99	27.44	8.27	-
AV	2.44G	110.43	Inf	-Inf	36.00	3	Horizontal	15	2.10	-	74.43	27.68	8.32	-
AV	2.4976G	49.34	54.00	-4.66	36.24	3	Horizontal	15	2.10	-	13.10	27.89	8.35	-
PK	2.3472G	59.43	74.00	-14.57	35.45	3	Horizontal	15	2.10	-	23.98	27.20	8.25	-
PK	2.4396G	111.83	Inf	-Inf	36.00	3	Horizontal	15	2.10	-	75.83	27.68	8.32	-
PK	2.4932G	59.88	74.00	-14.12	36.22	3	Horizontal	15	2.10	-	23.66	27.87	8.35	-

**BT-LE(1Mbps)**

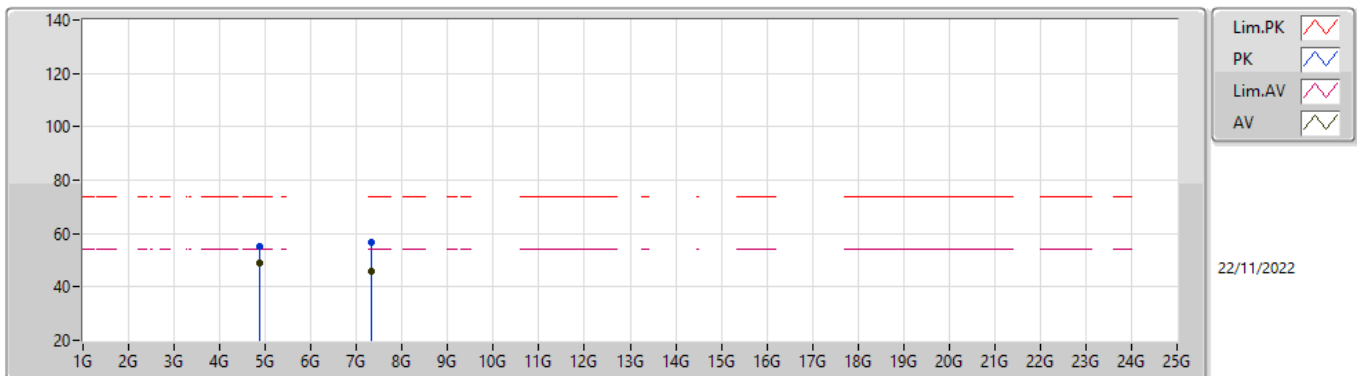
**2440MHz\_TX**



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.88002G	45.28	54.00	-8.72	12.32	3	Vertical	355	1.02	-	32.96	32.62	9.70	30.00
AV	7.32053G	43.75	54.00	-10.25	17.33	3	Vertical	360	1.16	-	26.42	36.72	11.32	30.71
PK	4.88053G	52.69	74.00	-21.31	12.32	3	Vertical	355	1.02	-	40.37	32.62	9.70	30.00
PK	7.32086G	55.41	74.00	-18.59	17.33	3	Vertical	360	1.16	-	38.08	36.72	11.32	30.71

**BT-LE(1Mbps)**

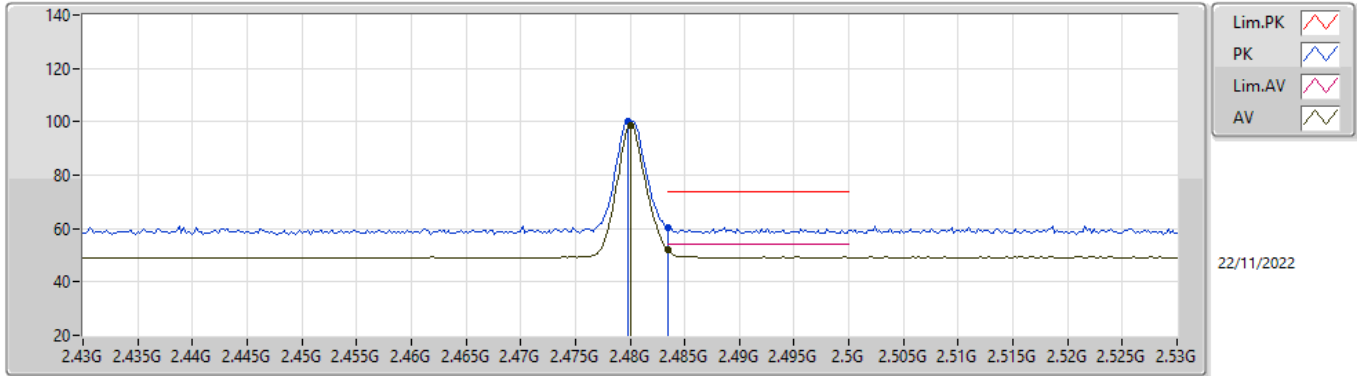
**2440MHz\_TX**



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87998G	48.97	54.00	-5.03	12.32	3	Horizontal	6	1.50	-	36.65	32.62	9.70	30.00
AV	7.32042G	45.61	54.00	-8.39	17.33	3	Horizontal	49	1.50	-	28.28	36.72	11.32	30.71
PK	4.87986G	55.34	74.00	-18.66	12.32	3	Horizontal	6	1.50	-	43.02	32.62	9.70	30.00
PK	7.3207G	56.58	74.00	-17.42	17.33	3	Horizontal	49	1.50	-	39.25	36.72	11.32	30.71

**BT-LE(1Mbps)**

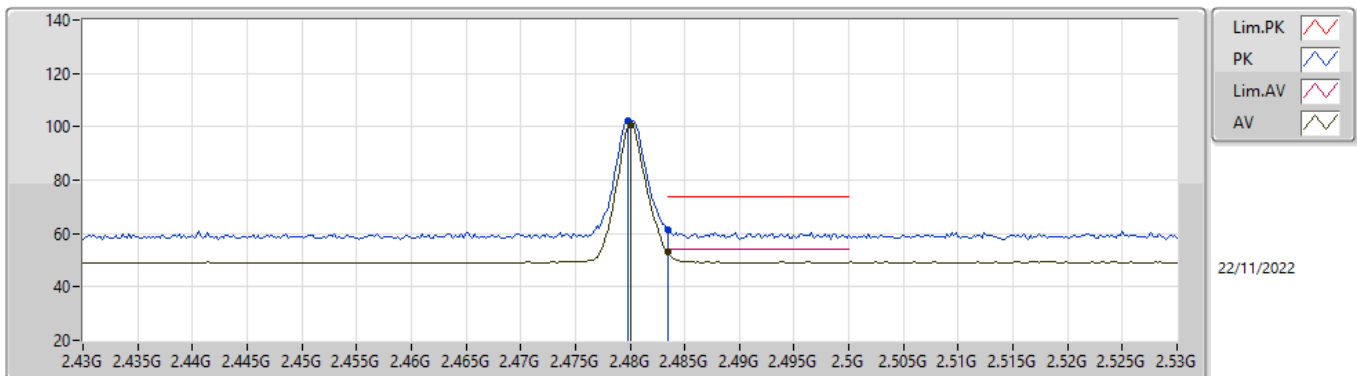
**2480MHz\_TX**



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.48G	98.63	Inf	-Inf	36.16	3	Vertical	321	2.03	-	62.47	27.82	8.34	-
AV	2.4835G	51.83	54.00	-2.17	36.17	3	Vertical	321	2.03	-	15.66	27.83	8.34	-
PK	2.4798G	100.00	Inf	-Inf	36.16	3	Vertical	321	2.03	-	63.84	27.82	8.34	-
PK	2.4835G	60.55	74.00	-13.45	36.17	3	Vertical	321	2.03	-	24.38	27.83	8.34	-

**BT-LE(1Mbps)**

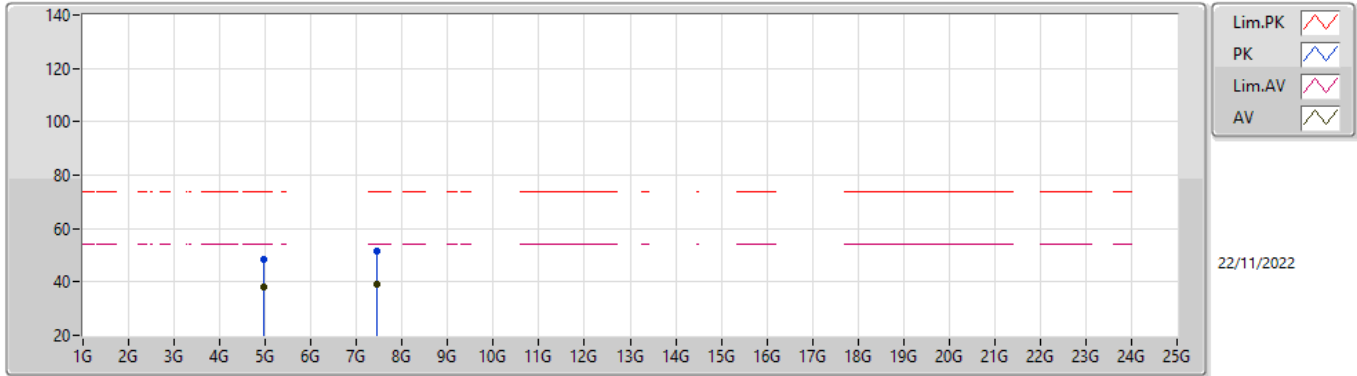
**2480MHz\_TX**



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.48G	100.65	Inf	-Inf	36.16	3	Horizontal	325	2.75	-	64.49	27.82	8.34	-
AV	2.4835G	52.87	54.00	-1.13	36.17	3	Horizontal	325	2.75	-	16.70	27.83	8.34	-
PK	2.4798G	102.08	Inf	-Inf	36.16	3	Horizontal	325	2.75	-	65.92	27.82	8.34	-
PK	2.4835G	61.44	74.00	-12.56	36.17	3	Horizontal	325	2.75	-	25.27	27.83	8.34	-

**BT-LE(1Mbps)**

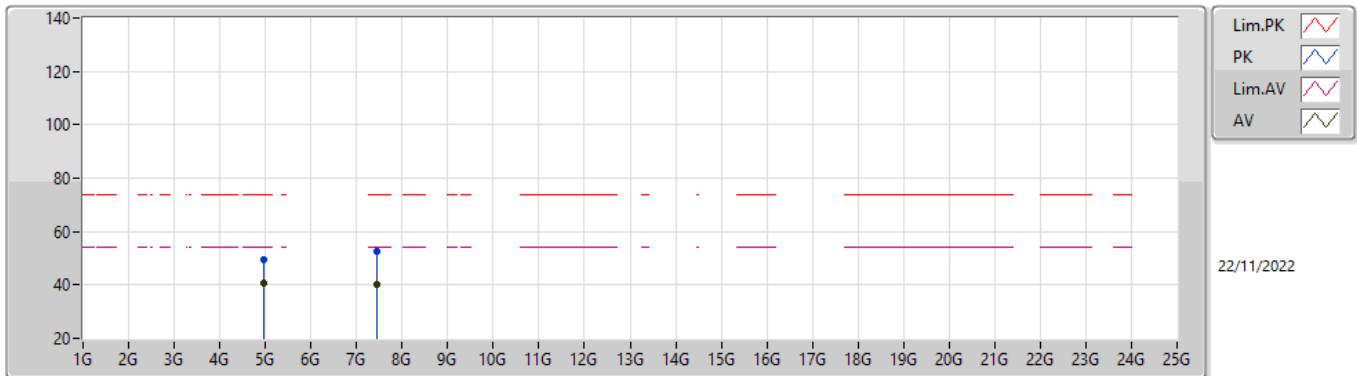
**2480MHz\_TX**



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.95988G	37.94	54.00	-16.06	12.80	3	Vertical	341	1.37	-	25.14	33.04	9.73	29.97
AV	7.43944G	39.01	54.00	-14.99	17.03	3	Vertical	351	1.00	-	21.98	36.40	11.30	30.67
PK	4.9596G	48.54	74.00	-25.46	12.80	3	Vertical	341	1.37	-	35.74	33.04	9.73	29.97
PK	7.44058G	51.72	74.00	-22.28	17.03	3	Vertical	351	1.00	-	34.69	36.40	11.30	30.67

**BT-LE(1Mbps)**

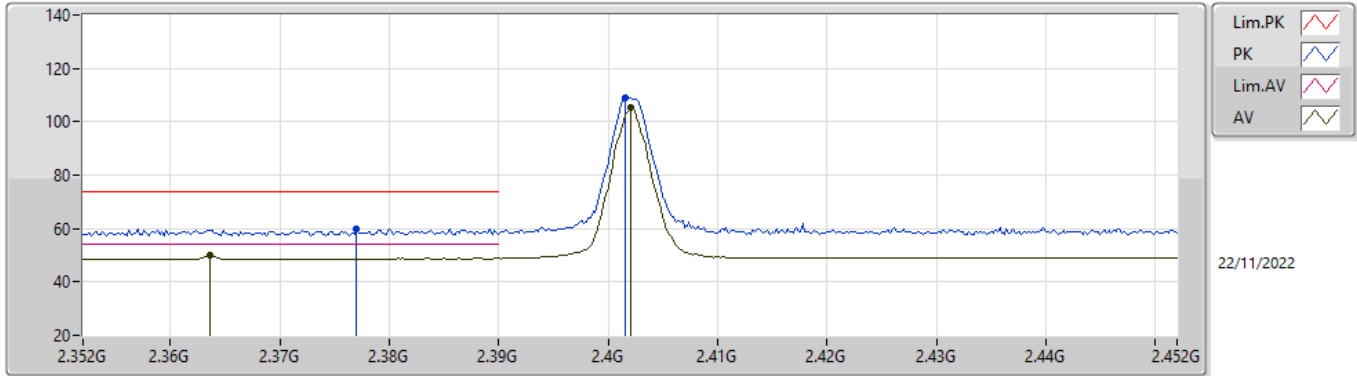
**2480MHz\_TX**



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.95994G	40.50	54.00	-13.50	12.80	3	Horizontal	32	1.75	-	27.70	33.04	9.73	29.97
AV	7.43946G	40.04	54.00	-13.96	17.03	3	Horizontal	0	1.00	-	23.01	36.40	11.30	30.67
PK	4.96056G	49.72	74.00	-24.28	12.80	3	Horizontal	32	1.75	-	36.92	33.04	9.73	29.97
PK	7.4404G	52.39	74.00	-21.61	17.03	3	Horizontal	0	1.00	-	35.36	36.40	11.30	30.67

**BT-LE(2Mbps)**

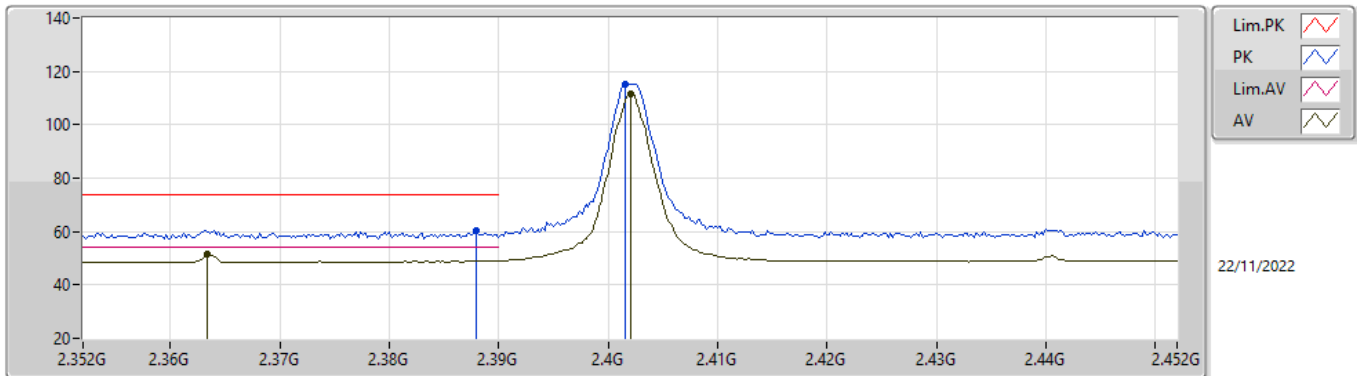
**2402MHz\_TX**



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3636G	49.82	54.00	-4.18	35.57	3	Vertical	14	2.06	-	14.25	27.31	8.26	-
AV	2.402G	105.20	Inf	-Inf	35.89	3	Vertical	14	2.06	-	69.31	27.60	8.29	-
PK	2.377G	59.74	74.00	-14.26	35.69	3	Vertical	14	2.06	-	24.05	27.42	8.27	-
PK	2.4016G	108.78	Inf	-Inf	35.89	3	Vertical	14	2.06	-	72.89	27.60	8.29	-

**BT-LE(2Mbps)**

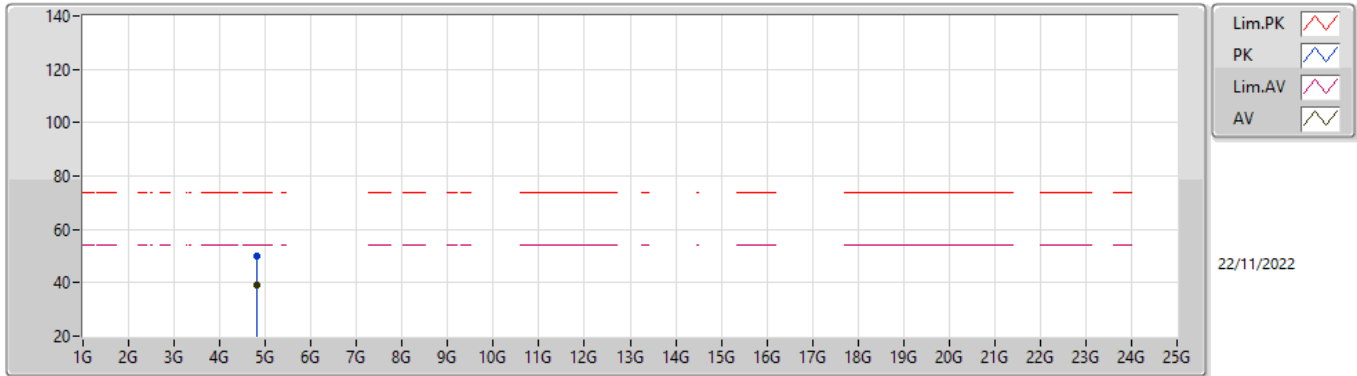
**2402MHz\_TX**



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3634G	51.34	54.00	-2.66	35.57	3	Horizontal	13	2.15	-	15.77	27.31	8.26	-
AV	2.402G	111.80	Inf	-Inf	35.89	3	Horizontal	13	2.15	-	75.91	27.60	8.29	-
PK	2.388G	60.36	74.00	-13.64	35.78	3	Horizontal	13	2.15	-	24.58	27.50	8.28	-
PK	2.4016G	115.43	Inf	-Inf	35.89	3	Horizontal	13	2.15	-	79.54	27.60	8.29	-

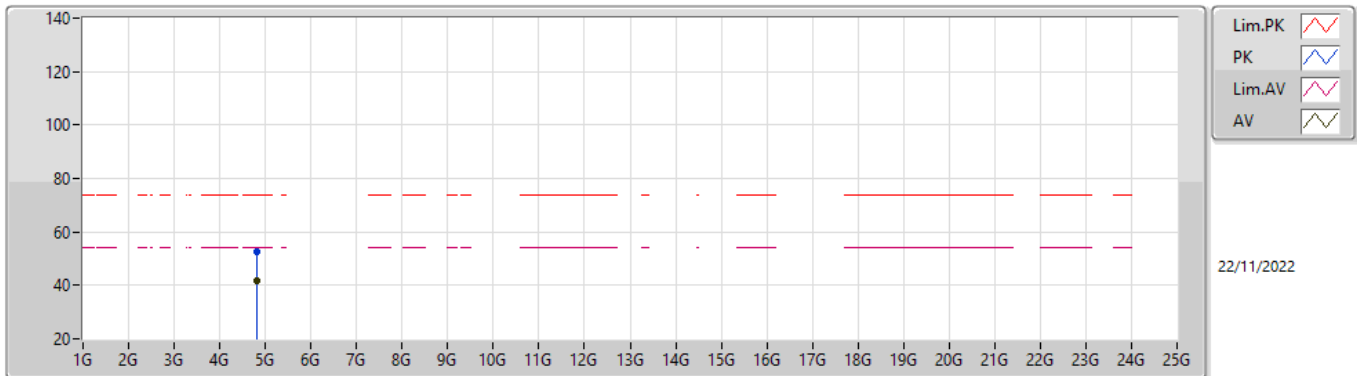


**BT-LE(2Mbps)**  
**2402MHz\_TX**



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.80494G	39.07	54.00	-14.93	11.87	3	Vertical	353	1.33	-	27.20	32.23	9.67	30.03
PK	4.80502G	49.89	74.00	-24.11	11.87	3	Vertical	353	1.33	-	38.02	32.23	9.67	30.03

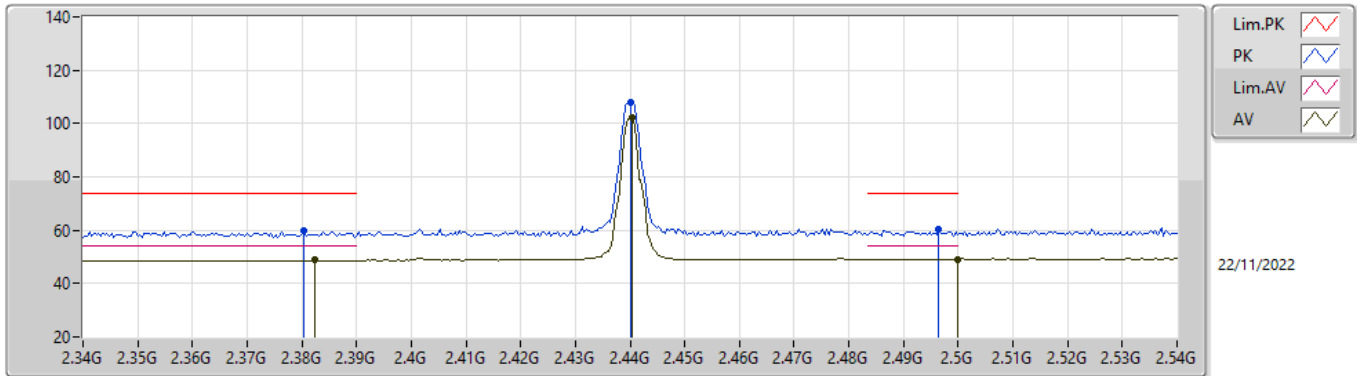
**BT-LE(2Mbps)**  
**2402MHz\_TX**



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.80502G	41.90	54.00	-12.10	11.87	3	Horizontal	36	1.40	-	30.03	32.23	9.67	30.03
PK	4.80498G	52.37	74.00	-21.63	11.87	3	Horizontal	36	1.40	-	40.50	32.23	9.67	30.03

**BT-LE(2Mbps)**

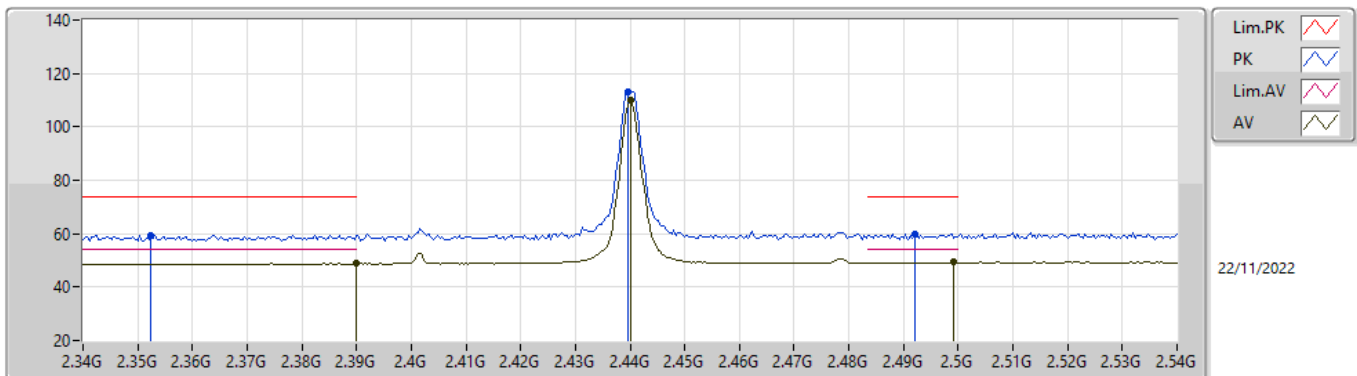
**2440MHz\_TX**



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3824G	48.73	54.00	-5.27	35.74	3	Vertical	4	1.15	-	12.99	27.46	8.28	-
AV	2.4404G	102.25	Inf	-Inf	36.00	3	Vertical	4	1.15	-	66.25	27.68	8.32	-
AV	2.5G	49.21	54.00	-4.79	36.26	3	Vertical	4	1.15	-	12.95	27.90	8.36	-
PK	2.3804G	59.90	74.00	-14.10	35.72	3	Vertical	4	1.15	-	24.18	27.44	8.28	-
PK	2.44G	107.92	Inf	-Inf	36.00	3	Vertical	4	1.15	-	71.92	27.68	8.32	-
PK	2.4964G	60.32	74.00	-13.68	36.24	3	Vertical	4	1.15	-	24.08	27.89	8.35	-

**BT-LE(2Mbps)**

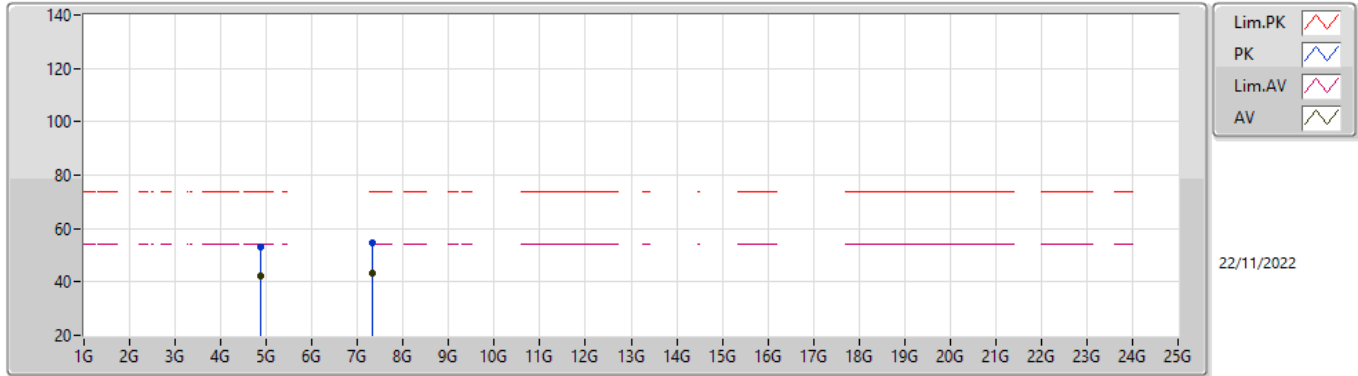
**2440MHz\_TX**



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	48.86	54.00	-5.14	35.80	3	Horizontal	319	2.57	-	13.06	27.52	8.28	-
AV	2.44G	109.82	Inf	-Inf	36.00	3	Horizontal	319	2.57	-	73.82	27.68	8.32	-
AV	2.4992G	49.30	54.00	-4.70	36.25	3	Horizontal	319	2.57	-	13.05	27.90	8.35	-
PK	2.3524G	59.44	74.00	-14.56	35.47	3	Horizontal	319	2.57	-	23.97	27.22	8.25	-
PK	2.4396G	113.18	Inf	-Inf	36.00	3	Horizontal	319	2.57	-	77.18	27.68	8.32	-
PK	2.492G	59.78	74.00	-14.22	36.22	3	Horizontal	319	2.57	-	23.56	27.87	8.35	-

### BT-LE(2Mbps)

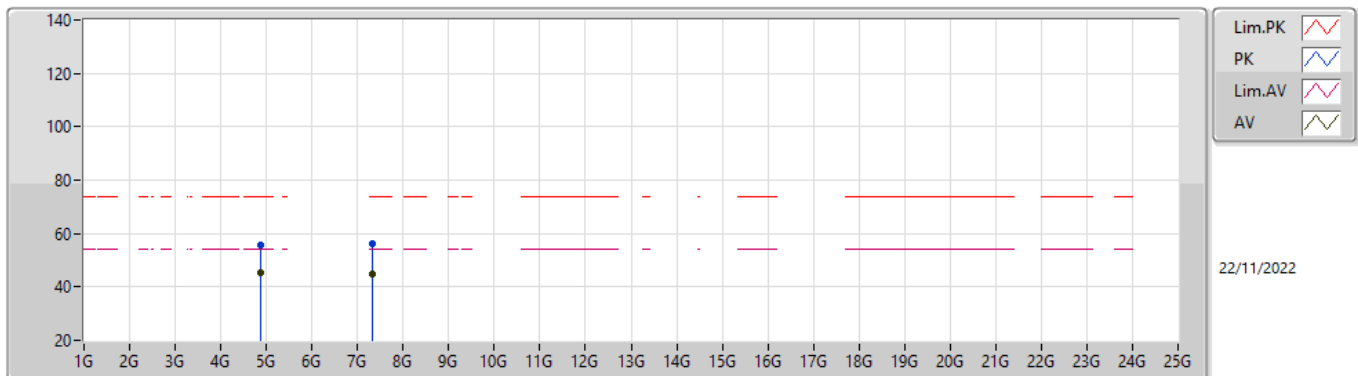
### 2440MHz\_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.88096G	42.49	54.00	-11.51	12.32	3	Vertical	357	1.05	-	30.17	32.62	9.70	30.00
AV	7.32114G	43.10	54.00	-10.90	17.33	3	Vertical	355	1.17	-	25.77	36.72	11.32	30.71
PK	4.88006G	53.03	74.00	-20.97	12.32	3	Vertical	357	1.05	-	40.71	32.62	9.70	30.00
PK	7.31856G	54.45	74.00	-19.55	17.34	3	Vertical	355	1.17	-	37.11	36.73	11.32	30.71

### BT-LE(2Mbps)

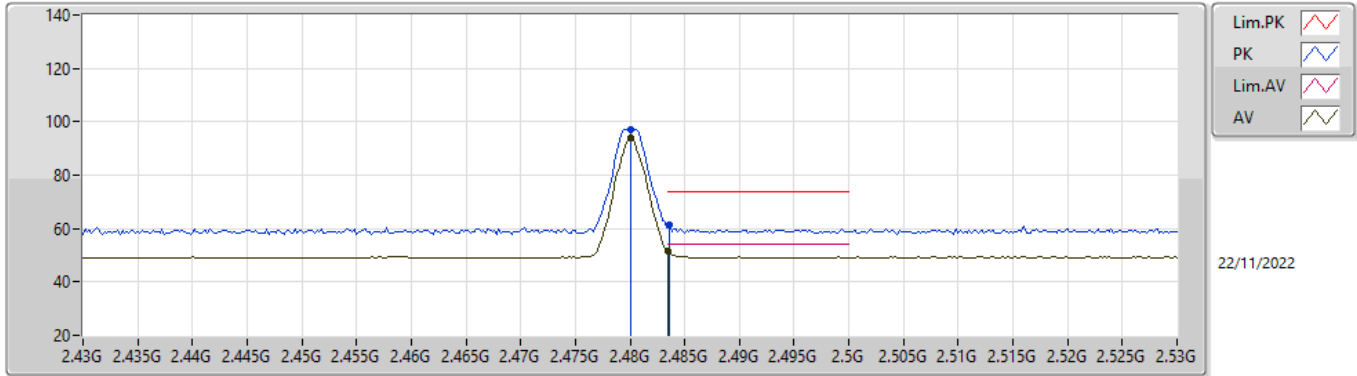
### 2440MHz\_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.8809G	45.11	54.00	-8.89	12.32	3	Horizontal	8	1.70	-	32.79	32.62	9.70	30.00
AV	7.32116G	44.96	54.00	-9.04	17.33	3	Horizontal	49	1.50	-	27.63	36.72	11.32	30.71
PK	4.87995G	55.59	74.00	-18.41	12.32	3	Horizontal	8	1.70	-	43.27	32.62	9.70	30.00
PK	7.31989G	56.08	74.00	-17.92	17.33	3	Horizontal	49	1.50	-	38.75	36.72	11.32	30.71

**BT-LE(2Mbps)**

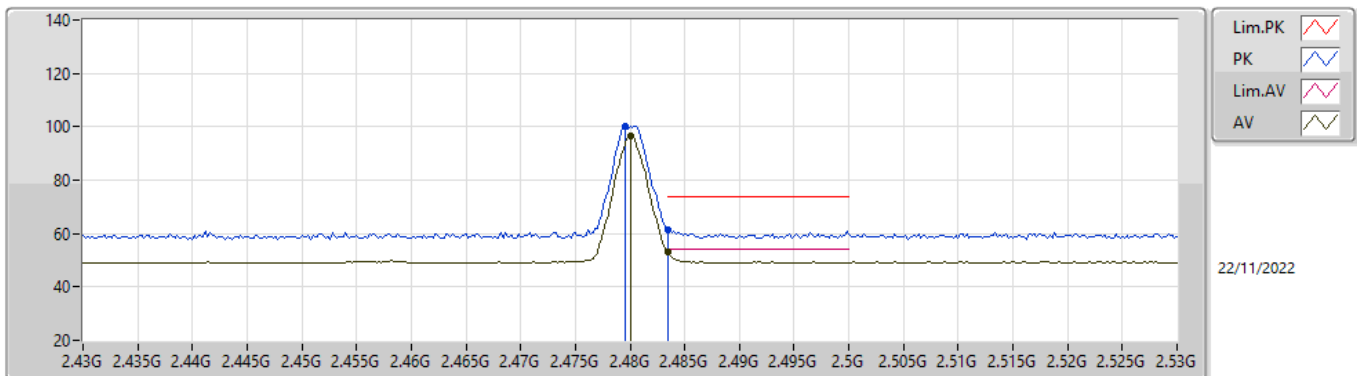
**2480MHz\_TX**



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.48G	93.84	Inf	-Inf	36.16	3	Vertical	324	2.03	-	57.68	27.82	8.34	-
AV	2.4835G	51.68	54.00	-2.32	36.17	3	Vertical	324	2.03	-	15.51	27.83	8.34	-
PK	2.48G	97.22	Inf	-Inf	36.16	3	Vertical	324	2.03	-	61.06	27.82	8.34	-
PK	2.4836G	61.49	74.00	-12.51	36.17	3	Vertical	324	2.03	-	25.32	27.83	8.34	-

**BT-LE(2Mbps)**

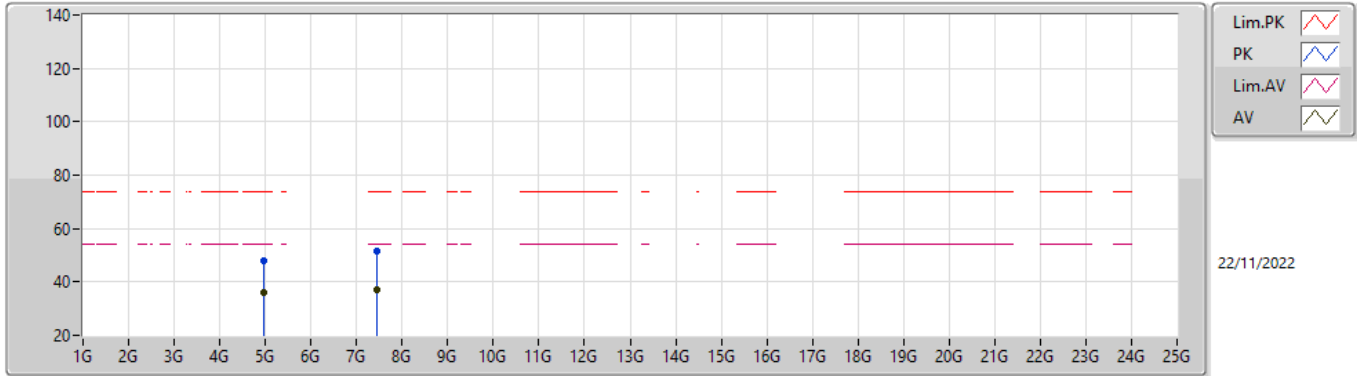
**2480MHz\_TX**



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.48G	96.70	Inf	-Inf	36.16	3	Horizontal	324	2.73	-	60.54	27.82	8.34	-
AV	2.4835G	52.88	54.00	-1.12	36.17	3	Horizontal	324	2.73	-	16.71	27.83	8.34	-
PK	2.4796G	100.01	Inf	-Inf	36.16	3	Horizontal	324	2.73	-	63.85	27.82	8.34	-
PK	2.4835G	61.49	74.00	-12.51	36.17	3	Horizontal	324	2.73	-	25.32	27.83	8.34	-

**BT-LE(2Mbps)**

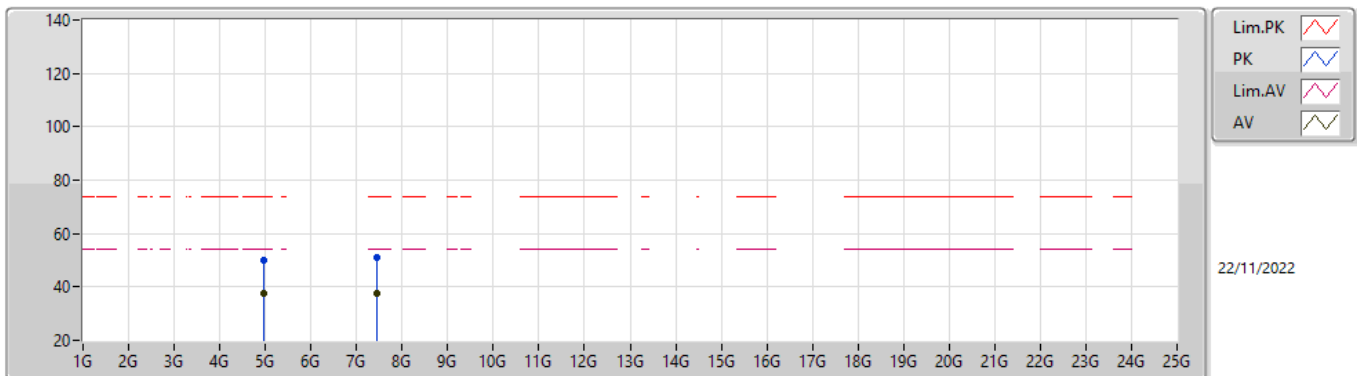
**2480MHz\_TX**



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.959G	36.08	54.00	-17.92	8.64	3	Vertical	322	1.07	-	27.44	33.04	9.73	34.13
AV	7.43848G	37.27	54.00	-16.73	13.19	3	Vertical	360	1.33	-	24.08	36.40	11.30	34.51
PK	4.9609G	47.82	74.00	-26.18	8.64	3	Vertical	322	1.07	-	39.18	33.04	9.73	34.13
PK	7.44122G	51.69	74.00	-22.31	13.19	3	Vertical	360	1.33	-	38.50	36.40	11.30	34.51

**BT-LE(2Mbps)**

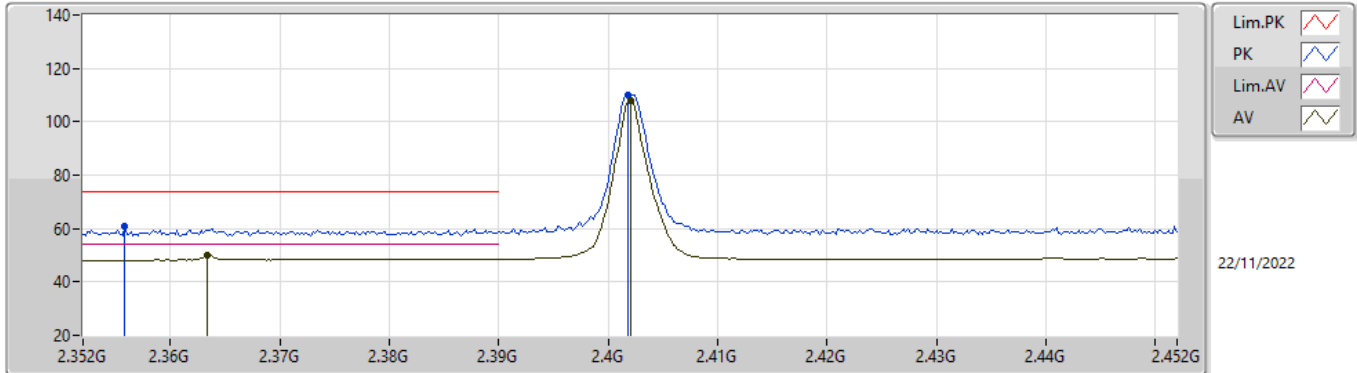
**2480MHz\_TX**



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.9591G	37.79	54.00	-16.21	8.64	3	Horizontal	34	2.24	-	29.15	33.04	9.73	34.13
AV	7.43868G	37.75	54.00	-16.25	13.19	3	Horizontal	0	1.00	-	24.56	36.40	11.30	34.51
PK	4.95994G	49.92	74.00	-24.08	8.64	3	Horizontal	34	2.24	-	41.28	33.04	9.73	34.13
PK	7.44114G	51.13	74.00	-22.87	13.19	3	Horizontal	0	1.00	-	37.94	36.40	11.30	34.51

**BT-LE(125kbps)**

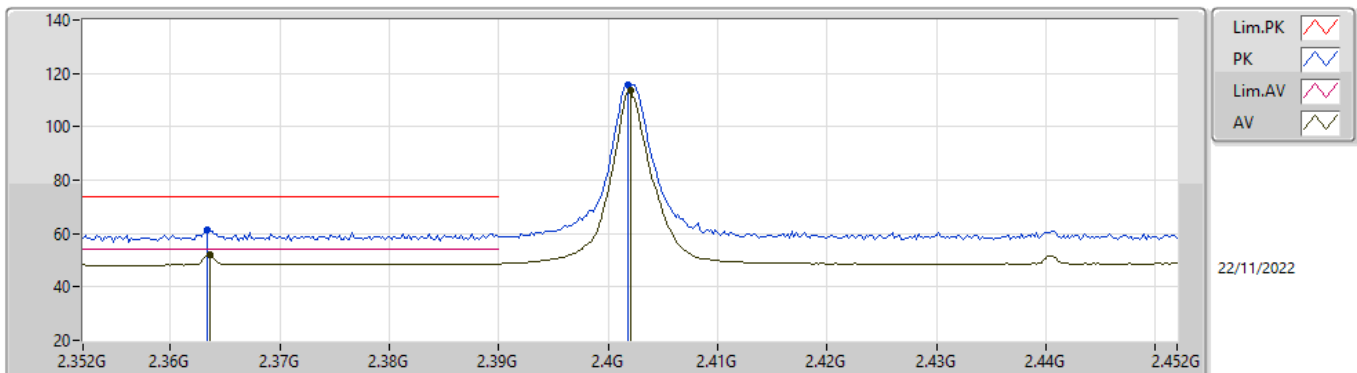
**2402MHz\_TX**



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3634G	49.81	54.00	-4.19	35.57	3	Vertical	13	1.78	-	14.24	27.31	8.26	-
AV	2.402G	107.86	Inf	-Inf	35.89	3	Vertical	13	1.78	-	71.97	27.60	8.29	-
PK	2.3558G	60.67	74.00	-13.33	35.51	3	Vertical	13	1.78	-	25.16	27.25	8.26	-
PK	2.4018G	109.96	Inf	-Inf	35.89	3	Vertical	13	1.78	-	74.07	27.60	8.29	-

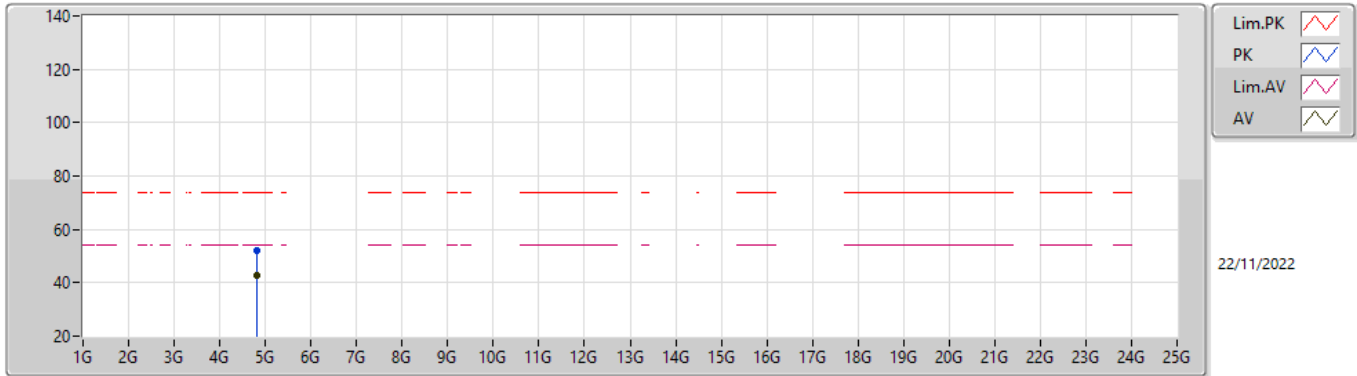
**BT-LE(125kbps)**

**2402MHz\_TX**



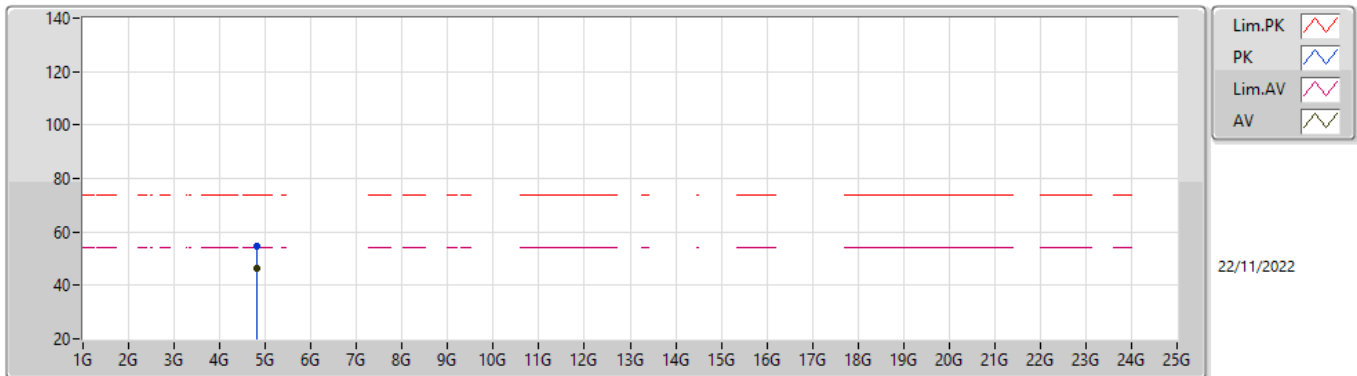
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3636G	51.85	54.00	-2.15	35.57	3	Horizontal	15	2.14	-	16.28	27.31	8.26	-
AV	2.402G	113.56	Inf	-Inf	35.89	3	Horizontal	15	2.14	-	77.67	27.60	8.29	-
PK	2.3634G	61.31	74.00	-12.69	35.57	3	Horizontal	15	2.14	-	25.74	27.31	8.26	-
PK	2.4018G	115.73	Inf	-Inf	35.89	3	Horizontal	15	2.14	-	79.84	27.60	8.29	-

**BT-LE(125kbps)**  
**2402MHz\_TX**



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.80416G	42.62	54.00	-11.38	7.70	3	Vertical	352	1.33	-	34.92	32.22	9.67	34.19
PK	4.80462G	51.96	74.00	-22.04	7.71	3	Vertical	352	1.33	-	44.25	32.23	9.67	34.19

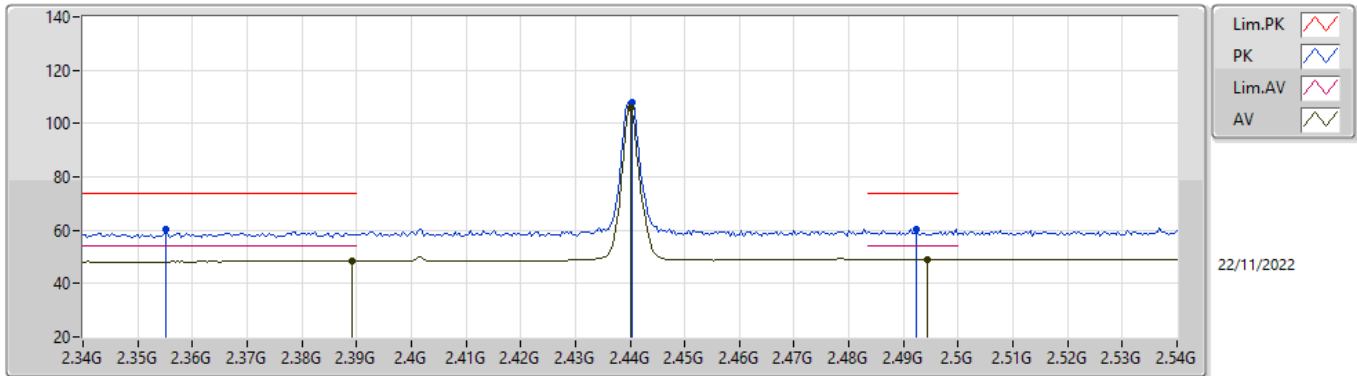
**BT-LE(125kbps)**  
**2402MHz\_TX**



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.80398G	46.37	54.00	-7.63	7.70	3	Horizontal	8	1.89	-	38.67	32.22	9.67	34.19
PK	4.80438G	54.66	74.00	-19.34	7.71	3	Horizontal	8	1.89	-	46.95	32.23	9.67	34.19

### BT-LE(125kbps)

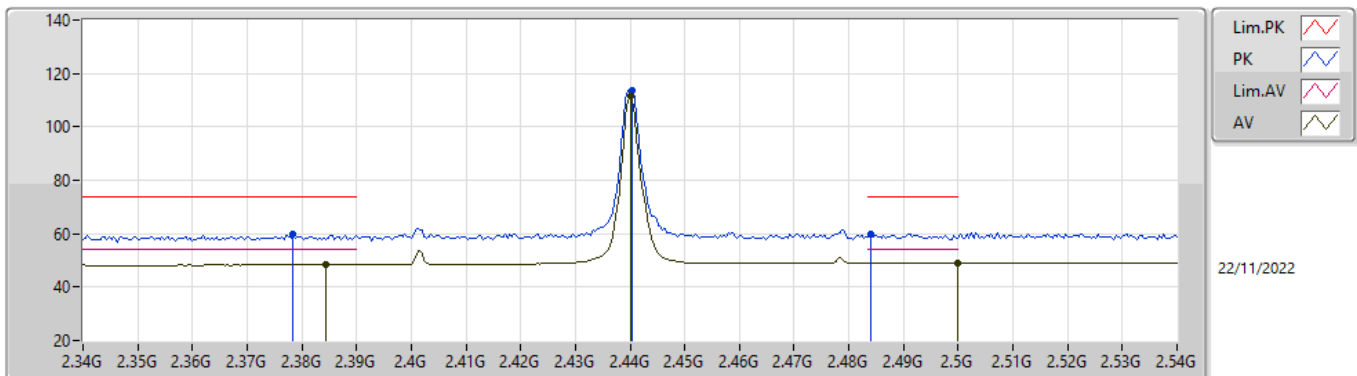
### 2440MHz\_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3892G	48.46	54.00	-5.54	35.79	3	Vertical	5	1.40	-	12.67	27.51	8.28	-
AV	2.44G	105.88	Inf	-Inf	36.00	3	Vertical	5	1.40	-	69.88	27.68	8.32	-
AV	2.4944G	48.90	54.00	-5.10	36.23	3	Vertical	5	1.40	-	12.67	27.88	8.35	-
PK	2.3552G	60.17	74.00	-13.83	35.50	3	Vertical	5	1.40	-	24.67	27.24	8.26	-
PK	2.4404G	107.98	Inf	-Inf	36.00	3	Vertical	5	1.40	-	71.98	27.68	8.32	-
PK	2.4924G	60.34	74.00	-13.66	36.22	3	Vertical	5	1.40	-	24.12	27.87	8.35	-

### BT-LE(125kbps)

### 2440MHz\_TX

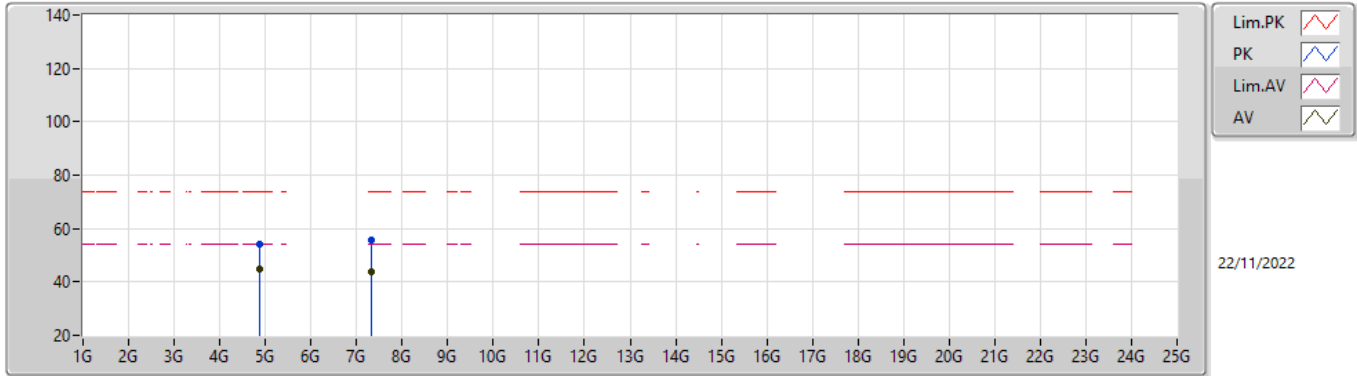


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3844G	48.40	54.00	-5.60	35.76	3	Horizontal	18	2.10	-	12.64	27.48	8.28	-
AV	2.44G	111.59	Inf	-Inf	36.00	3	Horizontal	18	2.10	-	75.59	27.68	8.32	-
AV	2.5G	49.02	54.00	-4.98	36.26	3	Horizontal	18	2.10	-	12.76	27.90	8.36	-
PK	2.3784G	59.85	74.00	-14.15	35.70	3	Horizontal	18	2.10	-	24.15	27.43	8.27	-
PK	2.4404G	113.67	Inf	-Inf	36.00	3	Horizontal	18	2.10	-	77.67	27.68	8.32	-
PK	2.484G	59.98	74.00	-14.02	36.18	3	Horizontal	18	2.10	-	23.80	27.84	8.34	-



**BT-LE(125kbps)**

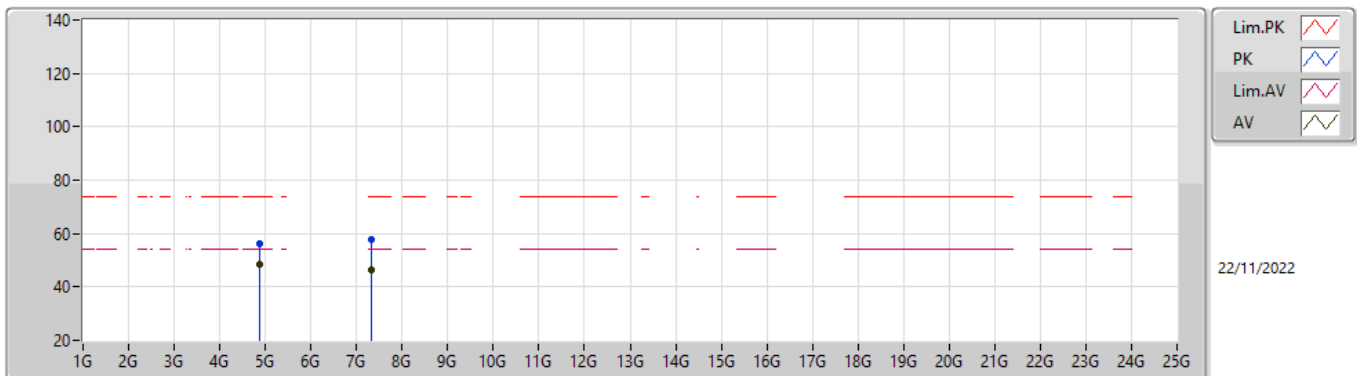
**2440MHz\_TX**



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.88016G	45.03	54.00	-8.97	8.16	3	Vertical	360	1.05	-	36.87	32.62	9.70	34.16
AV	7.32068G	43.62	54.00	-10.38	13.54	3	Vertical	355	1.03	-	30.08	36.72	11.32	34.50
PK	4.88058G	53.92	74.00	-20.08	8.16	3	Vertical	360	1.05	-	45.76	32.62	9.70	34.16
PK	7.32094G	55.48	74.00	-18.52	13.54	3	Vertical	355	1.03	-	41.94	36.72	11.32	34.50

**BT-LE(125kbps)**

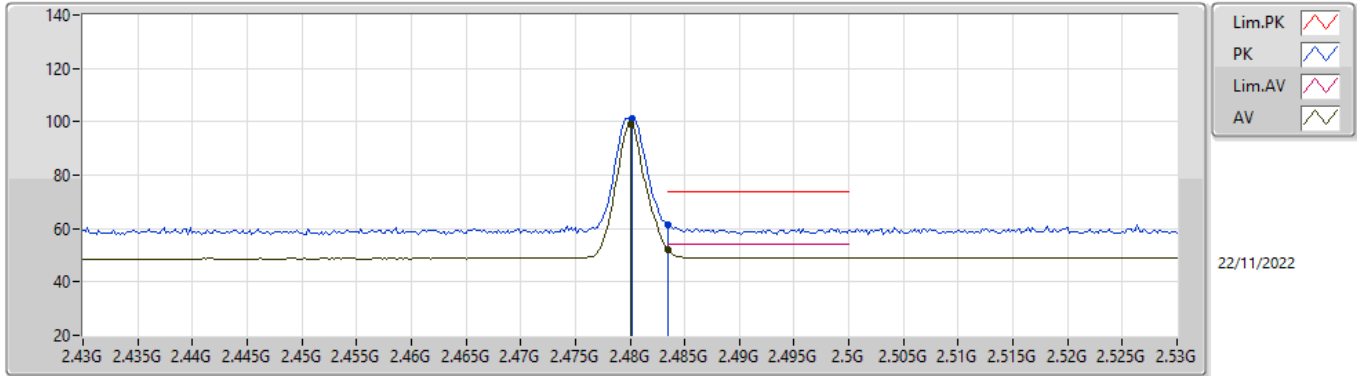
**2440MHz\_TX**



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87998G	48.23	54.00	-5.77	8.16	3	Horizontal	9	1.81	-	40.07	32.62	9.70	34.16
AV	7.32058G	46.42	54.00	-7.58	13.54	3	Horizontal	318	1.70	-	32.88	36.72	11.32	34.50
PK	4.88038G	56.38	74.00	-17.62	8.16	3	Horizontal	9	1.81	-	48.22	32.62	9.70	34.16
PK	7.31924G	57.65	74.00	-16.35	13.54	3	Horizontal	318	1.70	-	44.11	36.72	11.32	34.50

### BT-LE(125kbps)

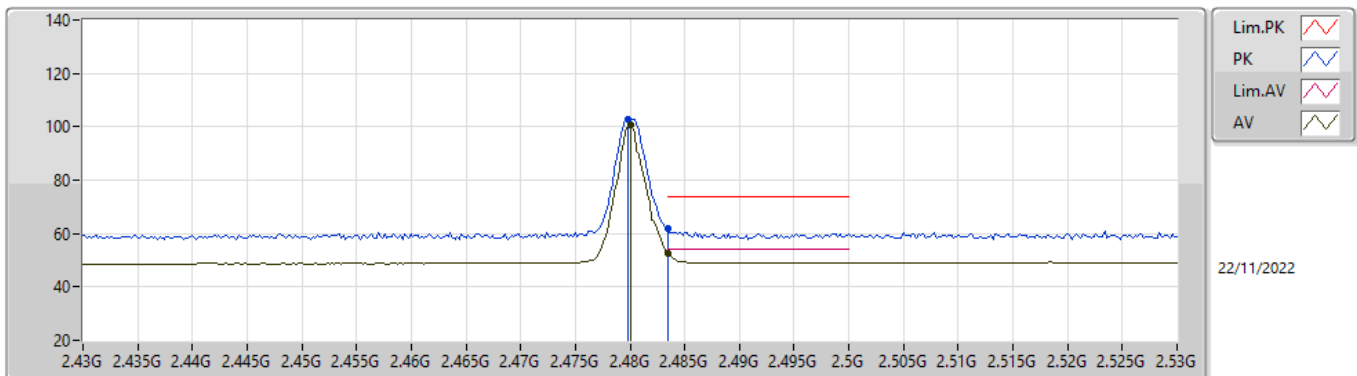
### 2480MHz\_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.48G	99.13	Inf	-Inf	36.16	3	Vertical	323	2.04	-	62.97	27.82	8.34	-
AV	2.4835G	52.11	54.00	-1.89	36.17	3	Vertical	323	2.04	-	15.94	27.83	8.34	-
PK	2.4802G	101.31	Inf	-Inf	36.16	3	Vertical	323	2.04	-	65.15	27.82	8.34	-
PK	2.4835G	61.38	74.00	-12.62	36.17	3	Vertical	323	2.04	-	25.21	27.83	8.34	-

### BT-LE(125kbps)

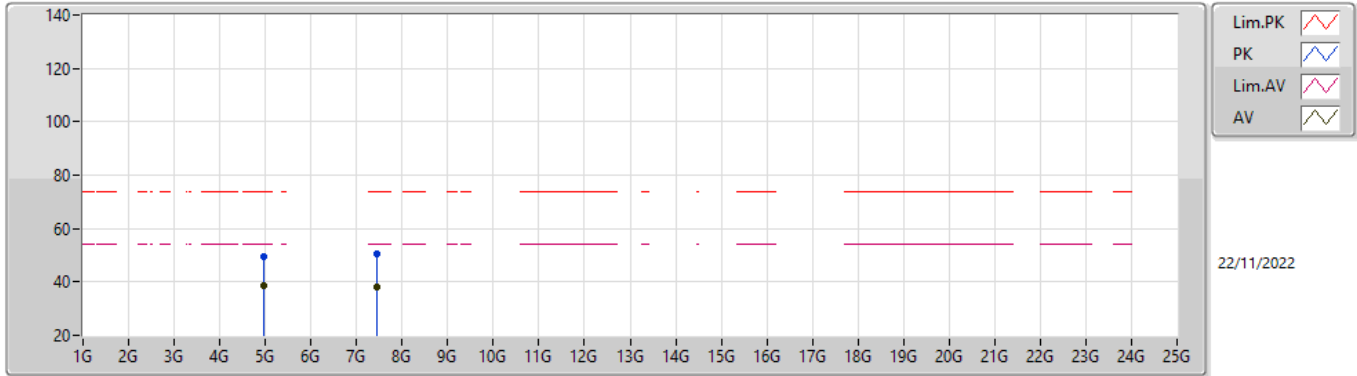
### 2480MHz\_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.48G	100.50	Inf	-Inf	36.16	3	Horizontal	326	3.00	-	64.34	27.82	8.34	-
AV	2.4835G	52.84	54.00	-1.16	36.17	3	Horizontal	326	3.00	-	16.67	27.83	8.34	-
PK	2.4798G	102.57	Inf	-Inf	36.16	3	Horizontal	326	3.00	-	66.41	27.82	8.34	-
PK	2.4835G	61.91	74.00	-12.09	36.17	3	Horizontal	326	3.00	-	25.74	27.83	8.34	-

**BT-LE(125kbps)**

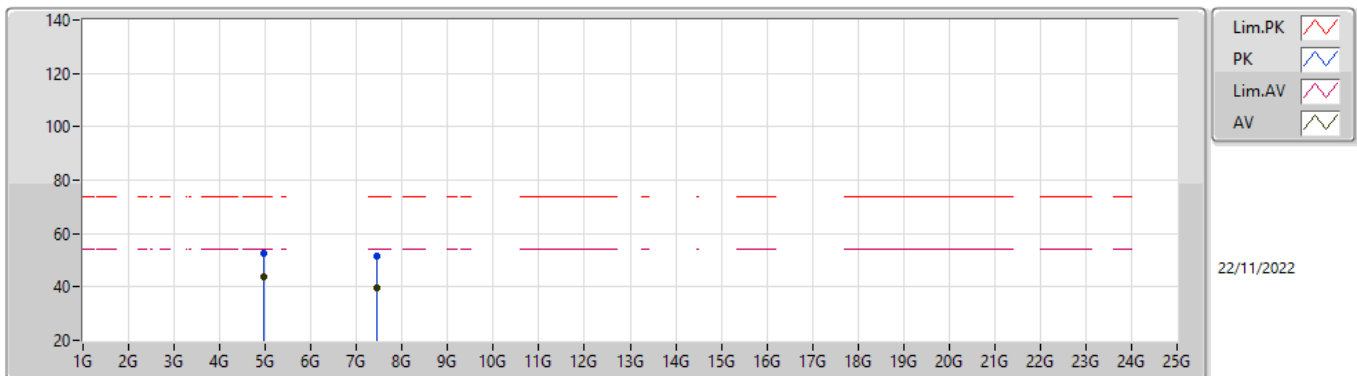
**2480MHz\_TX**



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.9603G	38.80	54.00	-15.20	8.64	3	Vertical	343	1.37	-	30.16	33.04	9.73	34.13
AV	7.43918G	38.28	54.00	-15.72	13.19	3	Vertical	360	1.34	-	25.09	36.40	11.30	34.51
PK	4.96058G	49.68	74.00	-24.32	8.64	3	Vertical	343	1.37	-	41.04	33.04	9.73	34.13
PK	7.441G	50.59	74.00	-23.41	13.19	3	Vertical	360	1.34	-	37.40	36.40	11.30	34.51

**BT-LE(125kbps)**

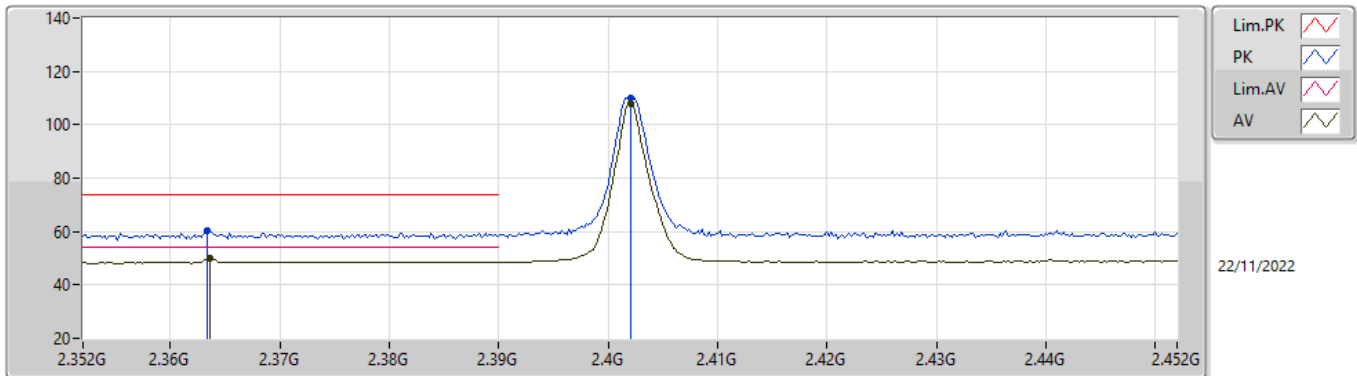
**2480MHz\_TX**



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.96014G	43.70	54.00	-10.30	8.64	3	Horizontal	297	1.68	-	35.06	33.04	9.73	34.13
AV	7.4406G	39.51	54.00	-14.49	13.19	3	Horizontal	-0	1.23	-	26.32	36.40	11.30	34.51
PK	4.95944G	52.58	74.00	-21.42	8.64	3	Horizontal	297	1.68	-	43.94	33.04	9.73	34.13
PK	7.44088G	51.79	74.00	-22.21	13.19	3	Horizontal	-0	1.23	-	38.60	36.40	11.30	34.51

**BT-LE(500kbps)**

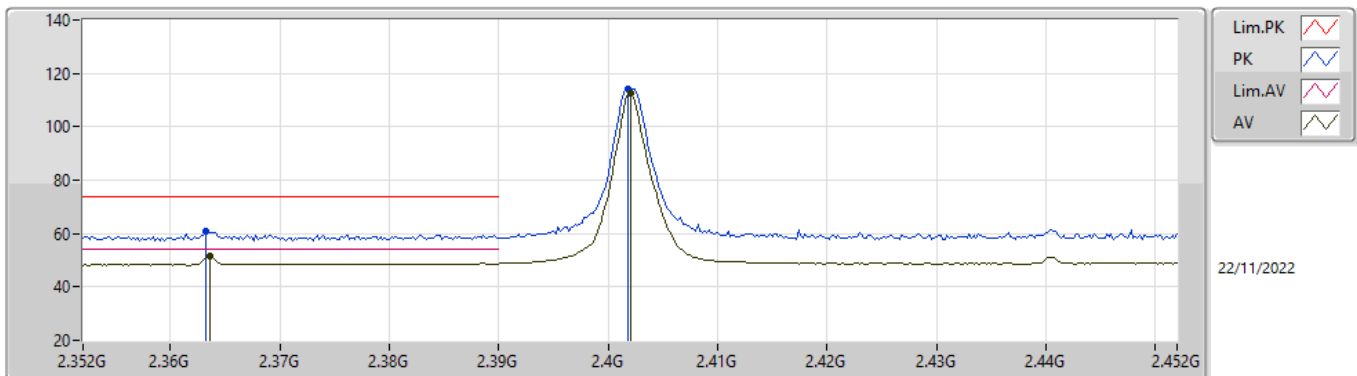
**2402MHz\_TX**



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3636G	49.97	54.00	-4.03	35.57	3	Vertical	13	1.77	-	14.40	27.31	8.26	-
AV	2.402G	108.02	Inf	-Inf	35.89	3	Vertical	13	1.77	-	72.13	27.60	8.29	-
PK	2.3634G	60.32	74.00	-13.68	35.57	3	Vertical	13	1.77	-	24.75	27.31	8.26	-
PK	2.402G	110.09	Inf	-Inf	35.89	3	Vertical	13	1.77	-	74.20	27.60	8.29	-

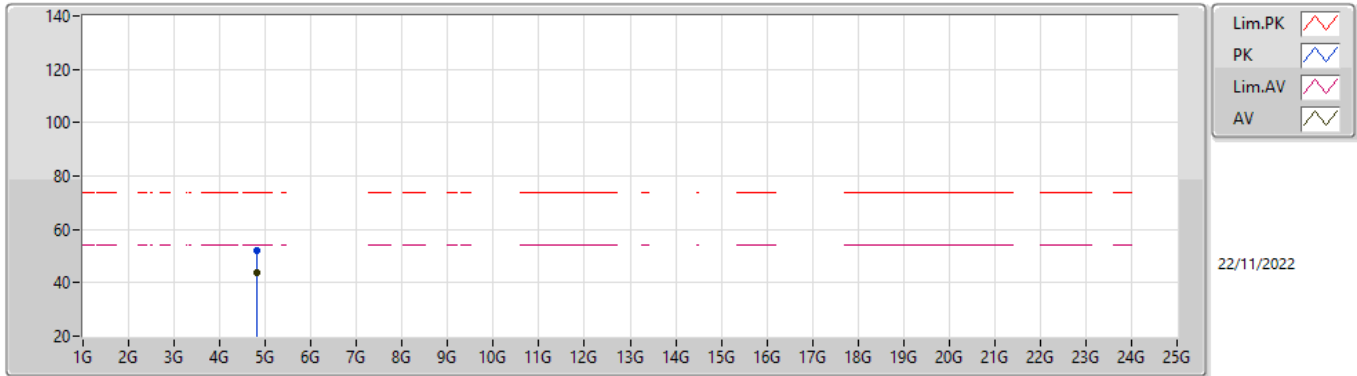
**BT-LE(500kbps)**

**2402MHz\_TX**



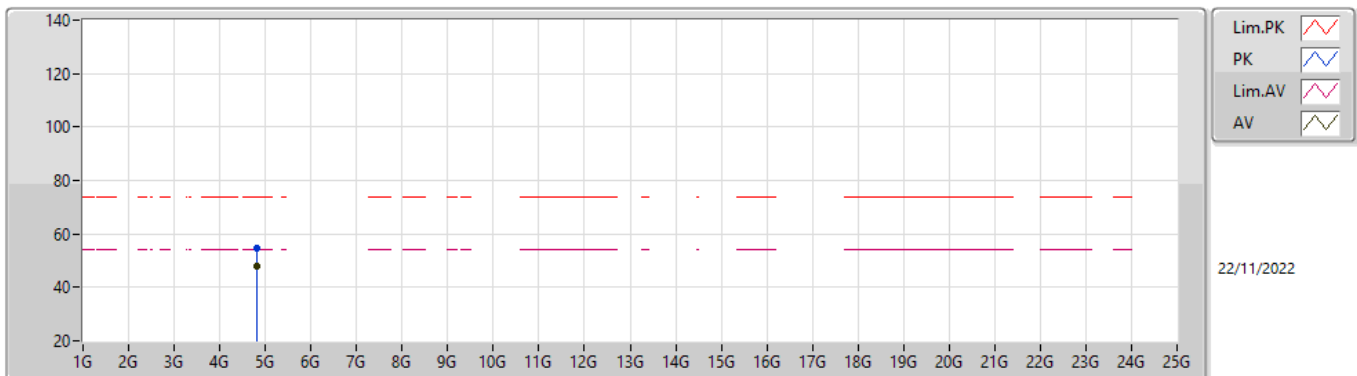
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3636G	51.67	54.00	-2.33	35.57	3	Horizontal	8	1.50	-	16.10	27.31	8.26	-
AV	2.402G	112.48	Inf	-Inf	35.89	3	Horizontal	8	1.50	-	76.59	27.60	8.29	-
PK	2.3632G	60.63	74.00	-13.37	35.57	3	Horizontal	8	1.50	-	25.06	27.31	8.26	-
PK	2.4018G	114.35	Inf	-Inf	35.89	3	Horizontal	8	1.50	-	78.46	27.60	8.29	-

**BT-LE(500kbps)**  
**2402MHz\_TX**



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.80392G	43.72	54.00	-10.28	7.70	3	Vertical	354	1.33	-	36.02	32.22	9.67	34.19
PK	4.80446G	51.84	74.00	-22.16	7.71	3	Vertical	354	1.33	-	44.13	32.23	9.67	34.19

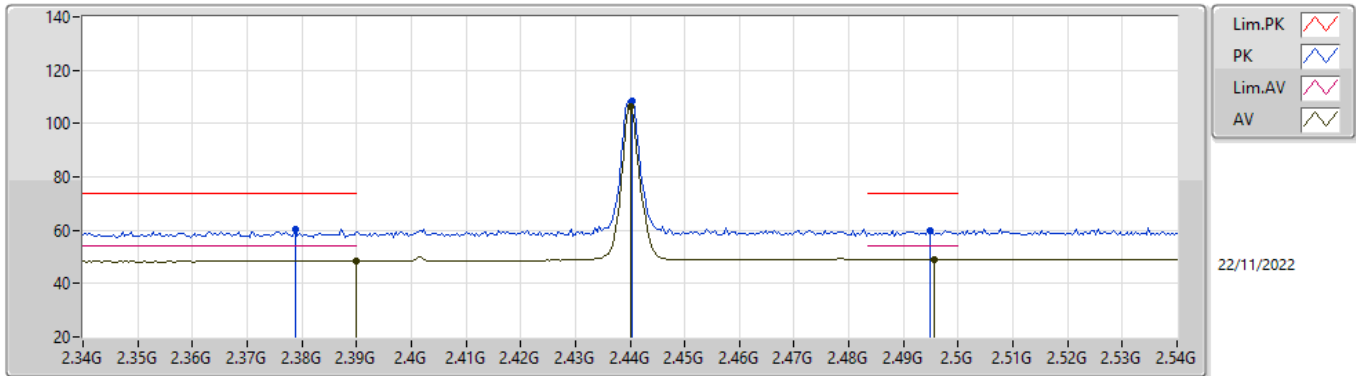
**BT-LE(500kbps)**  
**2402MHz\_TX**



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.80392G	47.68	54.00	-6.32	7.70	3	Horizontal	6	1.89	-	39.98	32.22	9.67	34.19
PK	4.80448G	54.75	74.00	-19.25	7.71	3	Horizontal	6	1.89	-	47.04	32.23	9.67	34.19

**BT-LE(500kbps)**

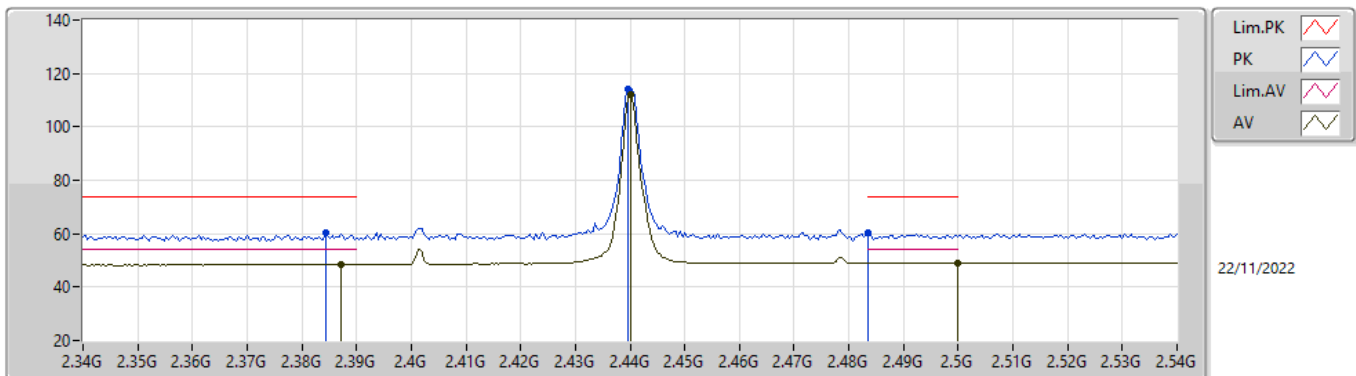
**2440MHz\_TX**



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	48.51	54.00	-5.49	35.80	3	Vertical	5	1.39	-	12.71	27.52	8.28	-
AV	2.44G	106.49	Inf	-Inf	36.00	3	Vertical	5	1.39	-	70.49	27.68	8.32	-
AV	2.4956G	49.02	54.00	-4.98	36.23	3	Vertical	5	1.39	-	12.79	27.88	8.35	-
PK	2.3788G	60.23	74.00	-13.77	35.70	3	Vertical	5	1.39	-	24.53	27.43	8.27	-
PK	2.4404G	108.36	Inf	-Inf	36.00	3	Vertical	5	1.39	-	72.36	27.68	8.32	-
PK	2.4948G	59.68	74.00	-14.32	36.23	3	Vertical	5	1.39	-	23.45	27.88	8.35	-

**BT-LE(500kbps)**

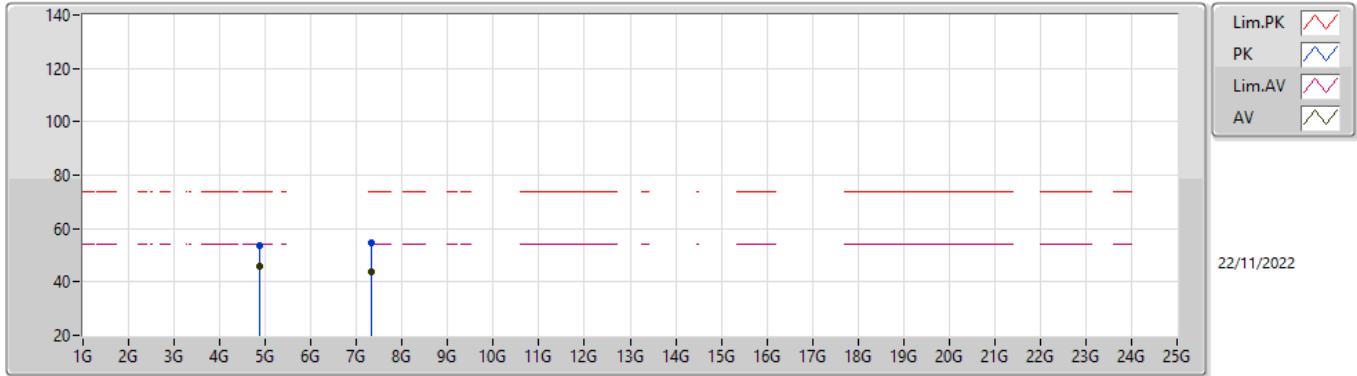
**2440MHz\_TX**



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3872G	48.57	54.00	-5.43	35.78	3	Horizontal	13	2.09	-	12.79	27.50	8.28	-
AV	2.44G	112.10	Inf	-Inf	36.00	3	Horizontal	13	2.09	-	76.10	27.68	8.32	-
AV	2.5G	49.03	54.00	-4.97	36.26	3	Horizontal	13	2.09	-	12.77	27.90	8.36	-
PK	2.3844G	60.21	74.00	-13.79	35.76	3	Horizontal	13	2.09	-	24.45	27.48	8.28	-
PK	2.4396G	113.88	Inf	-Inf	36.00	3	Horizontal	13	2.09	-	77.88	27.68	8.32	-
PK	2.4835G	60.46	74.00	-13.54	36.17	3	Horizontal	13	2.09	-	24.29	27.83	8.34	-

**BT-LE(500kbps)**

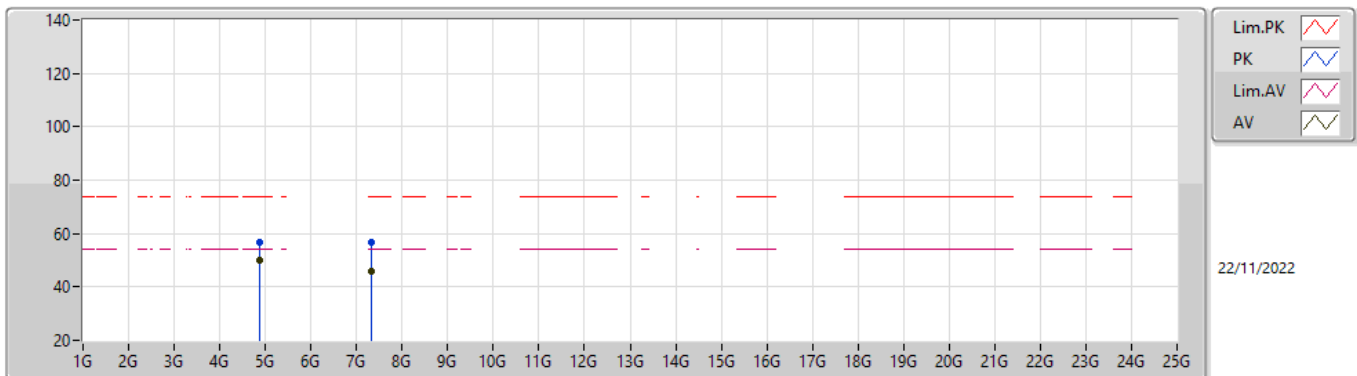
**2440MHz\_TX**



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.88004G	45.74	54.00	-8.26	8.16	3	Vertical	360	1.18	-	37.58	32.62	9.70	34.16
AV	7.32052G	43.57	54.00	-10.43	13.54	3	Vertical	360	1.18	-	30.03	36.72	11.32	34.50
PK	4.8794G	53.63	74.00	-20.37	8.16	3	Vertical	360	1.18	-	45.47	32.62	9.70	34.16
PK	7.32082G	54.91	74.00	-19.09	13.54	3	Vertical	360	1.18	-	41.37	36.72	11.32	34.50

**BT-LE(500kbps)**

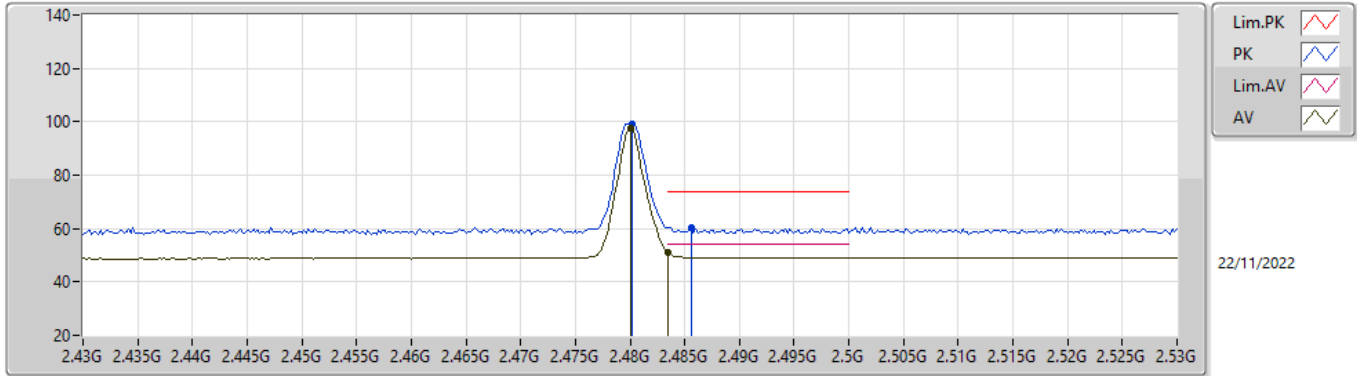
**2440MHz\_TX**



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.88G	49.79	54.00	-4.21	8.16	3	Horizontal	10	1.66	-	41.63	32.62	9.70	34.16
AV	7.32058G	46.03	54.00	-7.97	13.54	3	Horizontal	48	1.48	-	32.49	36.72	11.32	34.50
PK	4.8794G	56.71	74.00	-17.29	8.16	3	Horizontal	10	1.66	-	48.55	32.62	9.70	34.16
PK	7.32076G	56.57	74.00	-17.43	13.54	3	Horizontal	48	1.48	-	43.03	36.72	11.32	34.50

**BT-LE(500kbps)**

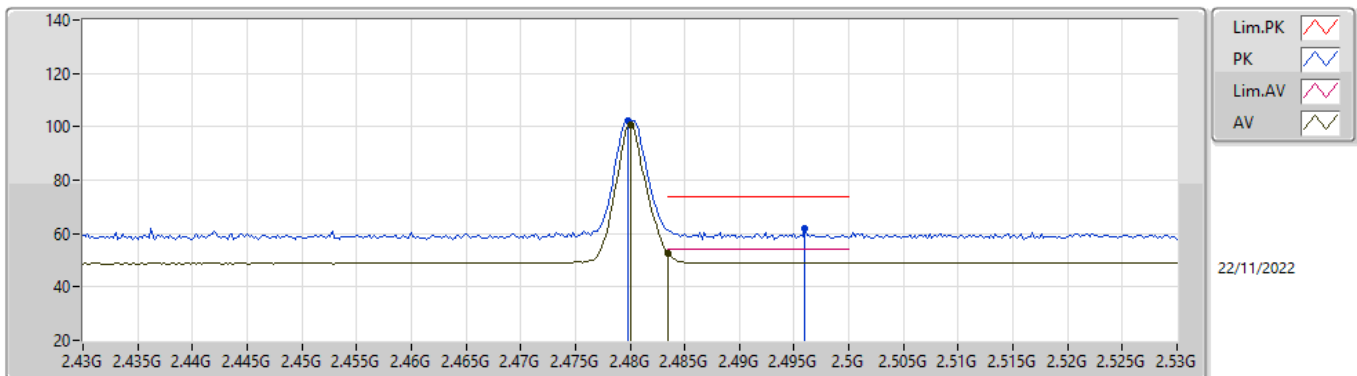
**2480MHz\_TX**



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.48G	97.47	Inf	-Inf	36.16	3	Vertical	322	2.39	-	61.31	27.82	8.34	-
AV	2.4835G	51.17	54.00	-2.83	36.17	3	Vertical	322	2.39	-	15.00	27.83	8.34	-
PK	2.4802G	99.25	Inf	-Inf	36.16	3	Vertical	322	2.39	-	63.09	27.82	8.34	-
PK	2.4856G	60.44	74.00	-13.56	36.19	3	Vertical	322	2.39	-	24.25	27.84	8.35	-

**BT-LE(500kbps)**

**2480MHz\_TX**

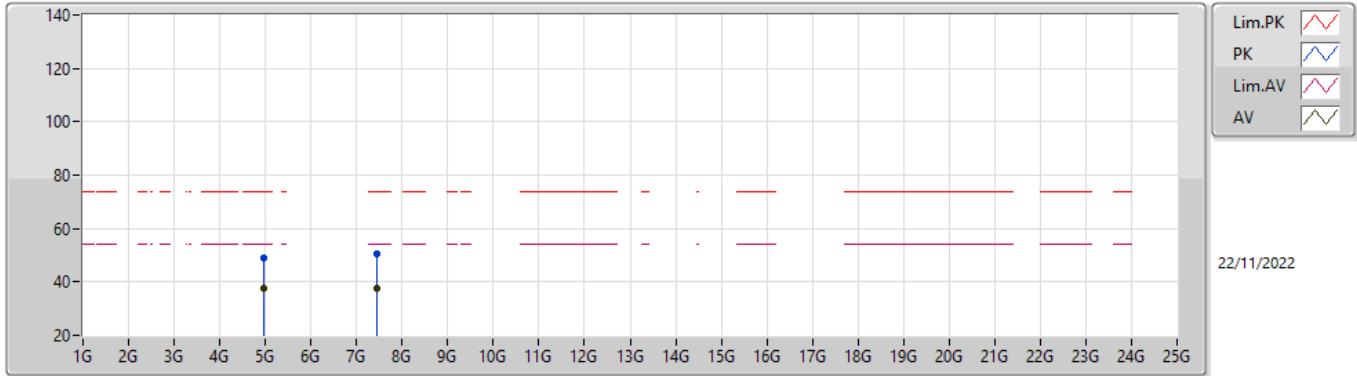


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.48G	100.69	Inf	-Inf	36.16	3	Horizontal	326	2.73	-	64.53	27.82	8.34	-
AV	2.4835G	52.77	54.00	-1.23	36.17	3	Horizontal	326	2.73	-	16.60	27.83	8.34	-
PK	2.4798G	102.50	Inf	-Inf	36.16	3	Horizontal	326	2.73	-	66.34	27.82	8.34	-
PK	2.496G	61.70	74.00	-12.30	36.23	3	Horizontal	326	2.73	-	25.47	27.88	8.35	-



**BT-LE(500kbps)**

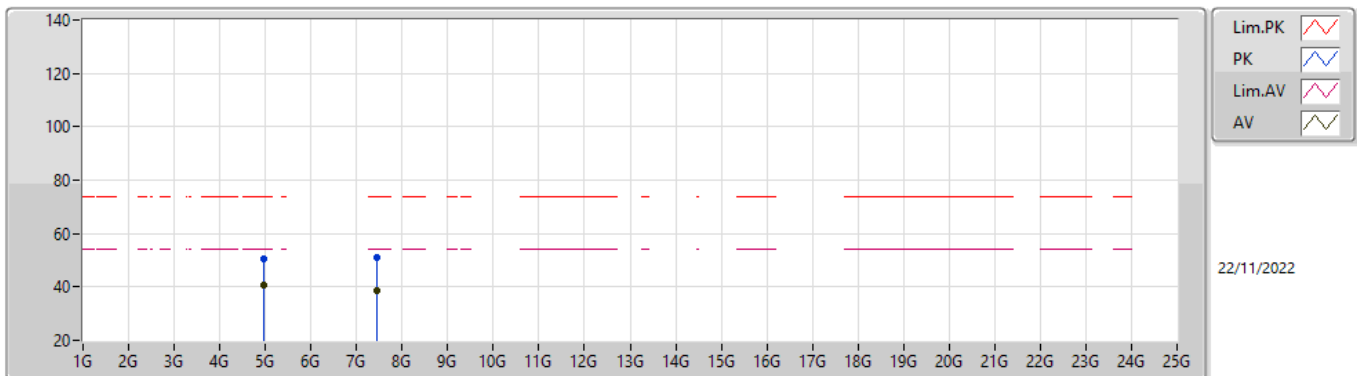
**2480MHz\_TX**



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.95994G	37.84	54.00	-16.16	8.64	3	Vertical	24	1.30	-	29.20	33.04	9.73	34.13
AV	7.4407G	37.83	54.00	-16.17	13.19	3	Vertical	356	1.12	-	24.64	36.40	11.30	34.51
PK	4.95936G	48.98	74.00	-25.02	8.64	3	Vertical	24	1.30	-	40.34	33.04	9.73	34.13
PK	7.43904G	50.66	74.00	-23.34	13.19	3	Vertical	356	1.12	-	37.47	36.40	11.30	34.51

**BT-LE(500kbps)**

**2480MHz\_TX**



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.96004G	40.55	54.00	-13.45	8.64	3	Horizontal	296	1.68	-	31.91	33.04	9.73	34.13
AV	7.44066G	38.66	54.00	-15.34	13.19	3	Horizontal	48	1.32	-	25.47	36.40	11.30	34.51
PK	4.96056G	50.42	74.00	-23.58	8.64	3	Horizontal	296	1.68	-	41.78	33.04	9.73	34.13
PK	7.43978G	51.21	74.00	-22.79	13.19	3	Horizontal	48	1.32	-	38.02	36.40	11.30	34.51



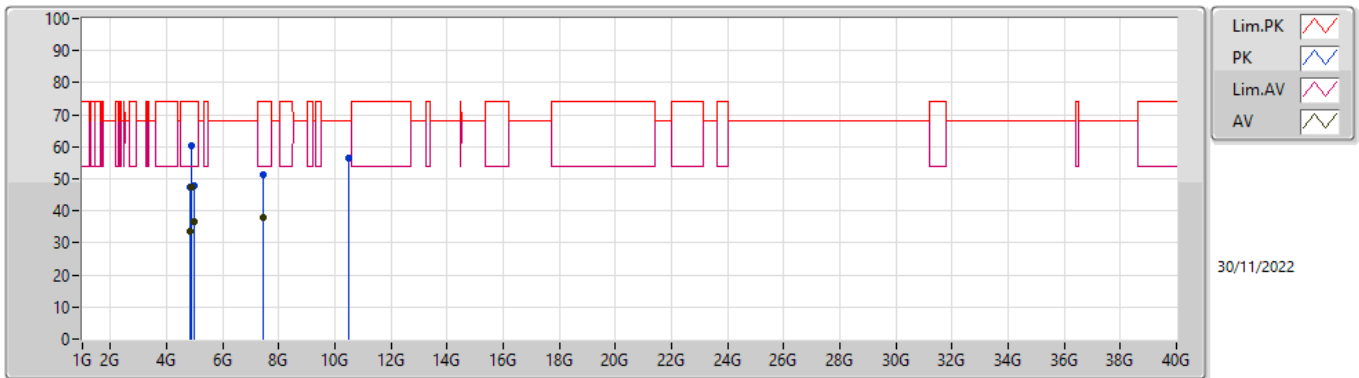
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	4.8723G	51.77	54.00	-2.23	Horizontal
Mode 2	Pass	PK	10.59685G	63.95	68.20	-4.25	Horizontal

Result

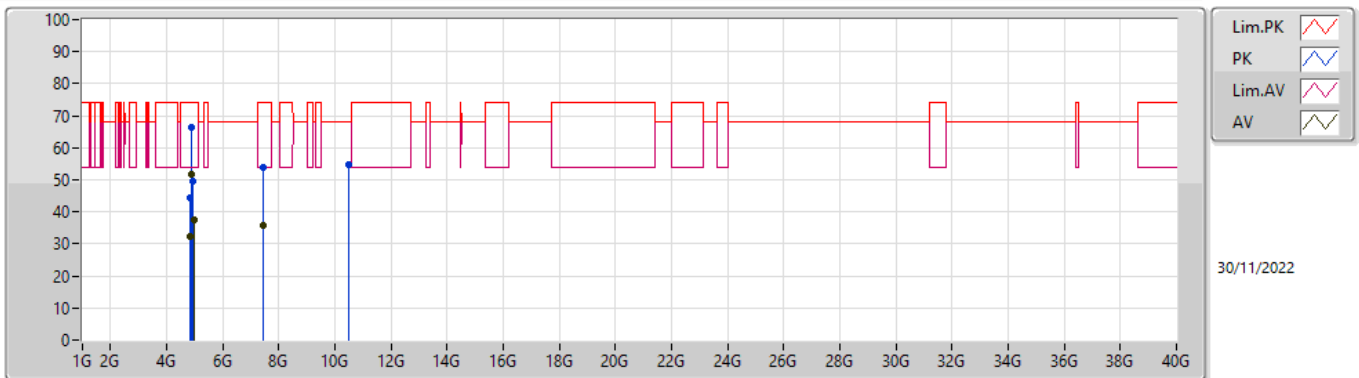
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
Mode 1	Pass	AV	4.82766G	33.62	54.00	-20.38	3	Vertical	162	1.48	-
Mode 1	Pass	AV	4.8726G	47.44	54.00	-6.56	3	Vertical	322	1.63	-
Mode 1	Pass	AV	4.962G	36.52	54.00	-17.48	3	Vertical	348	1.08	-
Mode 1	Pass	AV	7.43861G	37.88	54.00	-16.12	3	Vertical	339	1.46	-
Mode 1	Pass	PK	4.8223G	47.61	74.00	-26.39	3	Vertical	162	1.48	-
Mode 1	Pass	PK	4.8716G	60.48	74.00	-13.52	3	Vertical	322	1.63	-
Mode 1	Pass	PK	4.9608G	47.85	74.00	-26.15	3	Vertical	348	1.08	-
Mode 1	Pass	PK	7.44628G	51.38	74.00	-22.62	3	Vertical	339	1.46	-
Mode 1	Pass	PK	10.4836G	56.66	68.20	-11.54	3	Vertical	0	1.58	-
Mode 1	Pass	AV	4.82652G	32.36	54.00	-21.64	3	Horizontal	183	1.49	-
Mode 1	Pass	AV	4.8723G	51.77	54.00	-2.23	3	Horizontal	27	1.48	-
Mode 1	Pass	AV	4.96227G	37.42	54.00	-16.58	3	Horizontal	166	2.58	-
Mode 1	Pass	AV	7.44138G	35.73	54.00	-18.27	3	Horizontal	66	1.12	-
Mode 1	Pass	PK	4.82225G	44.52	74.00	-29.48	3	Horizontal	183	1.49	-
Mode 1	Pass	PK	4.8719G	66.52	74.00	-7.48	3	Horizontal	27	1.48	-
Mode 1	Pass	PK	4.95631G	49.62	74.00	-24.38	3	Horizontal	166	2.58	-
Mode 1	Pass	PK	7.4389G	53.77	74.00	-20.23	3	Horizontal	66	1.12	-
Mode 1	Pass	PK	10.4836G	54.68	68.20	-13.52	3	Horizontal	17	2.16	-
Mode 2	Pass	AV	4.82765G	33.34	54.00	-20.66	3	Vertical	186	1.22	-
Mode 2	Pass	AV	4.96277G	36.77	54.00	-17.23	3	Vertical	360	1.08	-
Mode 2	Pass	AV	7.43865G	37.52	54.00	-16.48	3	Vertical	332	1.77	-
Mode 2	Pass	PK	4.8227G	47.44	74.00	-26.56	3	Vertical	186	1.22	-
Mode 2	Pass	PK	4.96084G	48.58	74.00	-25.42	3	Vertical	360	1.08	-
Mode 2	Pass	PK	7.44666G	51.76	74.00	-22.24	3	Vertical	332	1.77	-
Mode 2	Pass	PK	10.48387G	56.58	68.20	-11.62	3	Vertical	6	1.58	-
Mode 2	Pass	PK	10.60848G	61.95	74.00	-12.05	3	Vertical	360	1.50	-
Mode 2	Pass	AV	4.82663G	32.38	54.00	-21.62	3	Horizontal	72	1.58	-
Mode 2	Pass	AV	4.96258G	38.62	54.00	-15.38	3	Horizontal	163	2.28	-
Mode 2	Pass	AV	7.44132G	37.44	54.00	-16.56	3	Horizontal	348	1.08	-
Mode 2	Pass	PK	4.82224G	44.15	74.00	-29.85	3	Horizontal	72	1.58	-
Mode 2	Pass	PK	4.95638G	48.73	74.00	-25.27	3	Horizontal	163	2.28	-
Mode 2	Pass	PK	7.43896G	51.18	74.00	-22.82	3	Horizontal	348	1.08	-
Mode 2	Pass	PK	10.4834G	56.66	68.20	-11.54	3	Horizontal	29	2.27	-
Mode 2	Pass	PK	10.59685G	63.95	68.20	-4.25	3	Horizontal	48	1.13	-

Mode 1



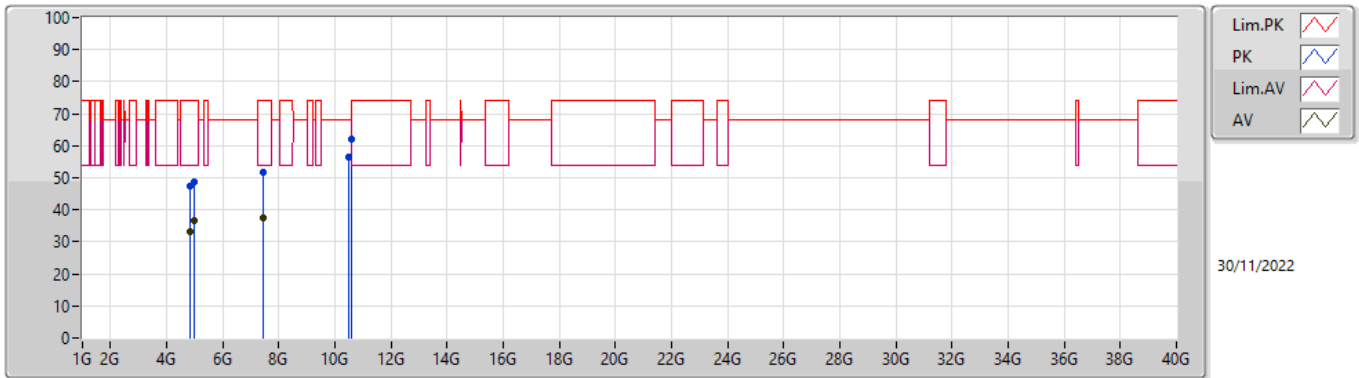
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
AV	4.82757G	33.62	54.00	-20.38	7.87	3	Vertical	162	1.48	-	25.75	32.37	9.68	34.18
AV	4.87248G	47.44	54.00	-6.56	8.12	3	Vertical	322	1.63	-	39.32	32.59	9.70	34.17
AV	4.96222G	36.52	54.00	-17.48	8.65	3	Vertical	348	1.08	-	27.87	33.05	9.73	34.13
AV	7.43871G	37.88	54.00	-16.12	13.19	3	Vertical	339	1.46	-	24.69	36.40	11.30	34.51
PK	4.8223G	47.61	74.00	-26.39	7.83	3	Vertical	162	1.48	-	39.78	32.33	9.68	34.18
PK	4.8718G	60.48	74.00	-13.52	8.12	3	Vertical	322	1.63	-	52.36	32.59	9.70	34.17
PK	4.9607G	47.85	74.00	-26.15	8.64	3	Vertical	348	1.08	-	39.21	33.04	9.73	34.13
PK	7.44627G	51.38	74.00	-22.62	13.18	3	Vertical	339	1.46	-	38.20	36.40	11.29	34.51
PK	10.4832G	56.66	68.20	-11.54	17.10	3	Vertical	0	1.58	-	39.56	38.90	12.72	34.52

Mode 1



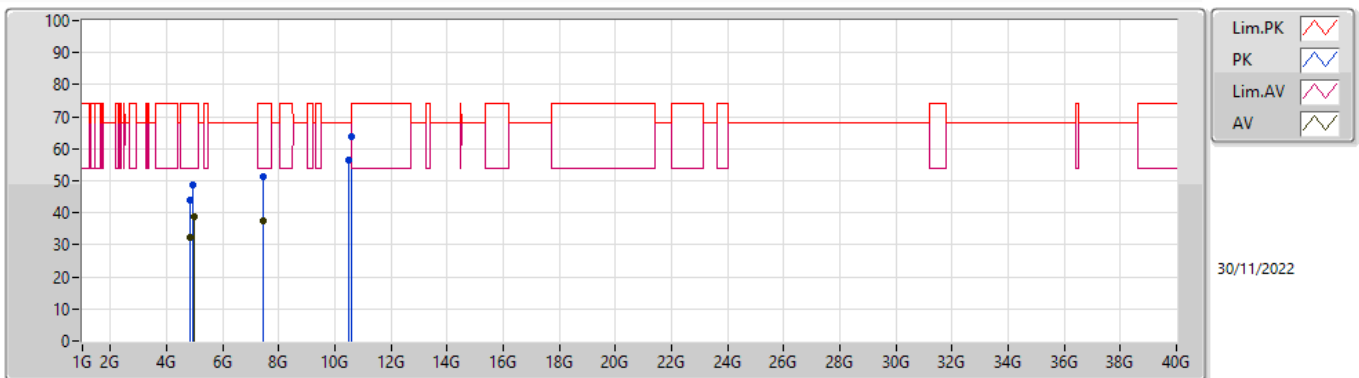
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
AV	4.82654G	32.36	54.00	-21.64	7.86	3	Horizontal	183	1.49	-	24.50	32.36	9.68	34.18
AV	4.8726G	51.77	54.00	-2.23	8.12	3	Horizontal	27	1.48	-	43.65	32.59	9.70	34.17
AV	4.9628G	37.42	54.00	-16.58	8.65	3	Horizontal	166	2.58	-	28.77	33.05	9.73	34.13
AV	7.4418G	35.73	54.00	-18.27	13.19	3	Horizontal	66	1.12	-	22.54	36.40	11.30	34.51
PK	4.82228G	44.52	74.00	-29.48	7.83	3	Horizontal	183	1.49	-	36.69	32.33	9.68	34.18
PK	4.87178G	66.52	74.00	-7.48	8.12	3	Horizontal	27	1.48	-	58.40	32.59	9.70	34.17
PK	4.95635G	49.62	74.00	-24.38	8.62	3	Horizontal	166	2.58	-	41.00	33.03	9.73	34.14
PK	7.43858G	53.77	74.00	-20.23	13.19	3	Horizontal	66	1.12	-	40.58	36.40	11.30	34.51
PK	10.4836G	54.68	68.20	-13.52	17.10	3	Horizontal	17	2.16	-	37.58	38.90	12.72	34.52

### Mode 2



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
AV	4.82765G	33.34	54.00	-20.66	7.87	3	Vertical	186	1.22	-	25.47	32.37	9.68	34.18
AV	4.96277G	36.77	54.00	-17.23	8.65	3	Vertical	360	1.08	-	28.12	33.05	9.73	34.13
AV	7.43865G	37.52	54.00	-16.48	13.19	3	Vertical	332	1.77	-	24.33	36.40	11.30	34.51
PK	4.8227G	47.44	74.00	-26.56	7.83	3	Vertical	186	1.22	-	39.61	32.33	9.68	34.18
PK	4.96084G	48.58	74.00	-25.42	8.64	3	Vertical	360	1.08	-	39.94	33.04	9.73	34.13
PK	7.44666G	51.76	74.00	-22.24	13.18	3	Vertical	332	1.77	-	38.58	36.40	11.29	34.51
PK	10.48387G	56.58	68.20	-11.62	17.10	3	Vertical	6	1.58	-	39.48	38.90	12.72	34.52
PK	10.60848G	61.95	74.00	-12.05	17.27	3	Vertical	360	1.50	-	44.68	38.93	12.77	34.43

### Mode 2



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
AV	4.82663G	32.38	54.00	-21.62	7.86	3	Horizontal	72	1.58	-	24.52	32.36	9.68	34.18
AV	4.96258G	38.62	54.00	-15.38	8.65	3	Horizontal	163	2.28	-	29.97	33.05	9.73	34.13
AV	7.44132G	37.44	54.00	-16.56	13.19	3	Horizontal	348	1.08	-	24.25	36.40	11.30	34.51
PK	4.82224G	44.15	74.00	-29.85	7.83	3	Horizontal	72	1.58	-	36.32	32.33	9.68	34.18
PK	4.95638G	48.73	74.00	-25.27	8.62	3	Horizontal	163	2.28	-	40.11	33.03	9.73	34.14
PK	7.43896G	51.18	74.00	-22.82	13.19	3	Horizontal	348	1.08	-	37.99	36.40	11.30	34.51
PK	10.4834G	56.66	68.20	-11.54	17.10	3	Horizontal	29	2.27	-	39.56	38.90	12.72	34.52
PK	10.59685G	63.95	68.20	-4.25	17.22	3	Horizontal	48	1.13	-	46.73	38.90	12.76	34.44